

# StormMax FG-5000

## INSTALLATION AND GLAZING MANUAL

# StormMax FG-5000 INSTALLATION & GLAZING MANUAL

## TABLE OF CONTENTS

General Information		Page No
1	FRAME FABRICATION (WET GLAZE/DRY-GLAZE OPTION)	
1.1	Measuring opening and sizing frame	2
1.2	Cutting material	3
1.3	Vertical Mullion fabrication	3
1.4	Steel reinforcing fabrication	3
1.5	Head and sill fabrication	4
1.6	Jamb mullion fabrication	4
1.7	Subsill fabrication	5
2	FRAMING ASSEMBLY	
2.1	Subsill end dam assembly	5
2.2	Frame panel assembly	6
3	FRAME INSTALLATION	
3.1	Subsill sealant and splice	6
3.2	Installation of panel frames	7
3.3	Sealant at Jambs	7
4W	WET GLAZING OPTION	
4W.1	Glazing preparation	8
4W.2.1~2.5	Setting of glass and exterior gasket sealant	8 ~ 9
4W.2.6~7	Interior structural sealant application	9
4D	DRY GLAZING OPTION	
4D.1	Glazing Preparation	10
4D.2.1~2.5	Setting of glass and exterior gasket sealant	10 ~ 11
5	CORNER MULLION FABRICATION AND INSTALLATION.	11 ~ 12
6	DOOR INSTALLATION	
6.1	Preparation of door frame	13
6.2	Installation of door frame	13
6.3.1-3.8	Door preparation and glazing	14
6.4	Entrance door frame installation	15
FG-5000 Parts, Extrusions and Accessories		15

## Quick Reference Guide

1. Glass Sizing  
D.L.O. + 1 1/8" for width and height.

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StormMax FG-5000  
Installation and Glazing Manual  
Page title

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Name	
StormMax FG-5000 IM	
Case	Date
2	01-2010
FEET	
1	
OF 16	

StormMax FG-5000 INSTALLATION & GLAZING MANUAL

GENERAL INFORMATION

FG-5000 IMPACT RESISTANT STOREFRONT SYSTEM

GENERAL INFORMATION:

Oldcastle BuildingEnvelope FG-5000 (2-1/2" x 5") impact resistant storefront system represents the latest in product development technology. This system was especially designed to meet the stringent requirements of Miami-Dade County and Florida Building Codes as well as the International Building Code for glass and glazing systems. FG-5000 successfully passed a series of large missile impact and cyclic wind test with a variety of impact-resistant glass.

BUILDING CODES:

Oldcastle BuildingEnvelope does not control the application nor selection of its product configurations, sealant or glazing materials and assumes no responsibility thereof. It is the responsibility of the owner, architect, and installer to make these selections in strict compliance with applicable laws and building codes.

STRUCTURAL SEALANTS:

Dow Corning® 995 structural sealants were used on the FG-5000 test specimen for glass to metal adhesion approved by Miami-Dade County. To comply with Miami-Dade County and Florida Building Code Protocols, Dow Corning® 995 sealant must be used for glass to metal adhesion with FG-5000.

PERIMETER SEALANTS:

Due to varying job conditions, all perimeter sealants used should be approved by the sealant manufacturer to ensure the sealant will function for the conditions shown on these instructions and shop drawings. Sealants must be compatible with all surfaces in which adhesion is required, including other sealants surfaces. Use primers where directed by sealant manufacturer. Be sure to properly store sealants at recommended temperature and check container for remainder of shelf life before using. Dow Corning® 795 silicone sealant was the perimeter sealant used on the FG-5000 test specimen approved by Miami-Dade County.

MATERIAL HANDLING:

SHOP

- 1. Cardboard wrapped or paper interleaved material must be kept dry.
- 2. Check arriving materials for quantity and keep record of where various materials are stored.

JOB SITE

- 1. Material at job site must be stored in a safe place well removed from possible damage by other trades.
- 2. Cardboard wrapped or paper interleaved materials must be kept dry.
- 3. Keep record of where various materials are stored.
- 4. Protect materials after erection. Cement, plaster, and other alkaline solutions are very harmful to the finish.

CLEANING

Aluminum shall be cleaned with plain water containing a mild detergent, or a petroleum product such as white gasoline, kerosene, or distillate. No abrasive agent shall be used.

GENERAL CONSTRUCTION NOTES

- A. Study these instructions, shop drawings, erection drawings, and architectural drawings, before starting any work.
- B. All materials are to be installed, plumb, and level.
- C. All work should start from an established benchmark and column centerlines established by the architect and the general contractor.
- D. Completely check construction which will receive your materials against contract documents. Notify the general contractor by letter of any discrepancies before proceeding with your work since this constitutes acceptance of work by other trades.
- E. Protect all aluminum to be placed directly in contact with uncured masonry or incompatible materials with a heavy coat of zinc chromate or bituminous paint.
- F. Follow installation and glazing instructions.
- G. After sealant is set and a representative amount of the wall has been glazed (500 square feet or more), run a water hose test to check installation. On large jobs, hose test should be repeated during glazing operation. Test should be conducted in accordance with AAMA 501.2 specifications.

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2

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SHEET

2

OF

16

FRAME FABRICATION

1.1 Establish Frame Size & Cut Metal to Length

Measure width of rough opening.

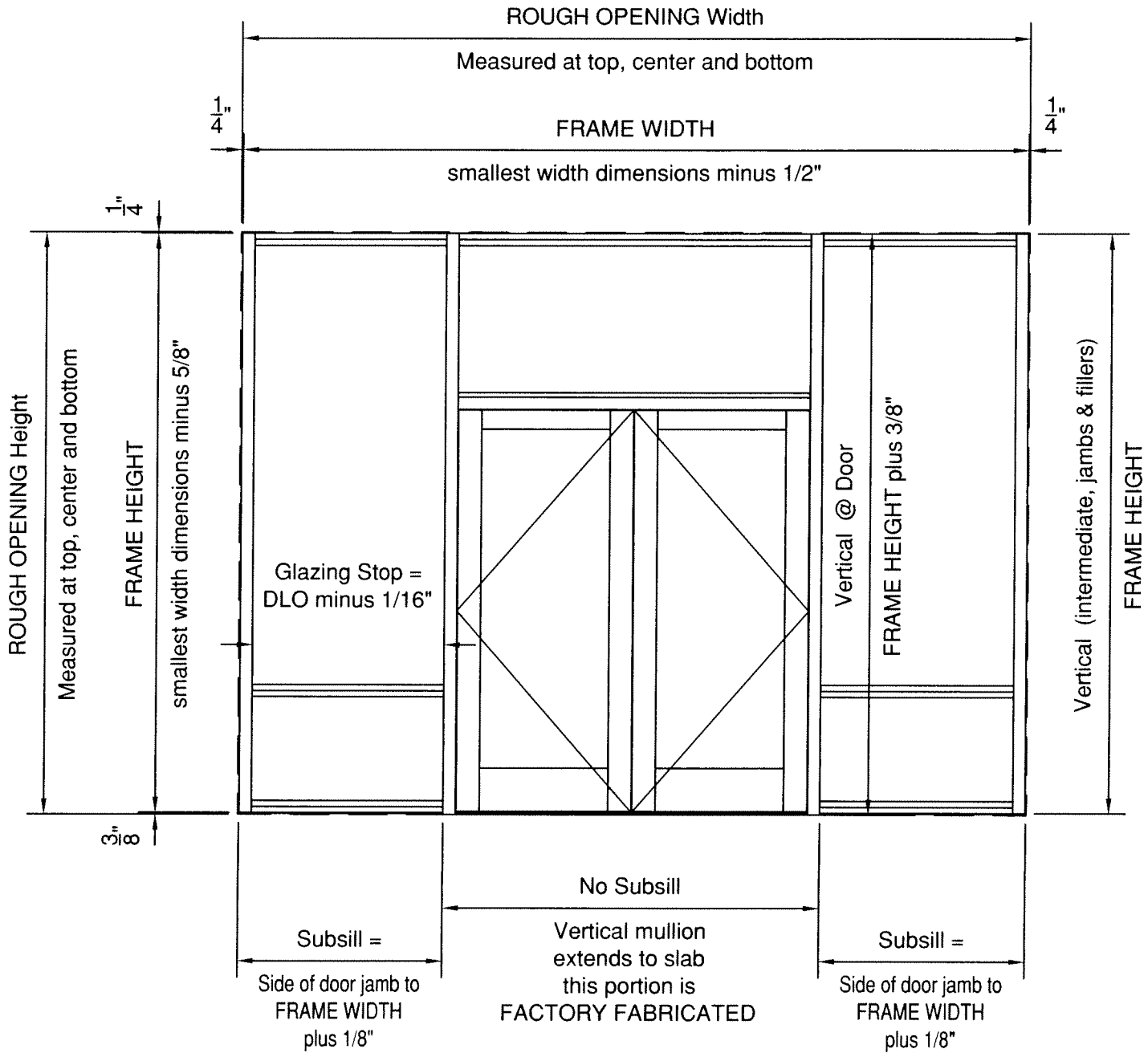
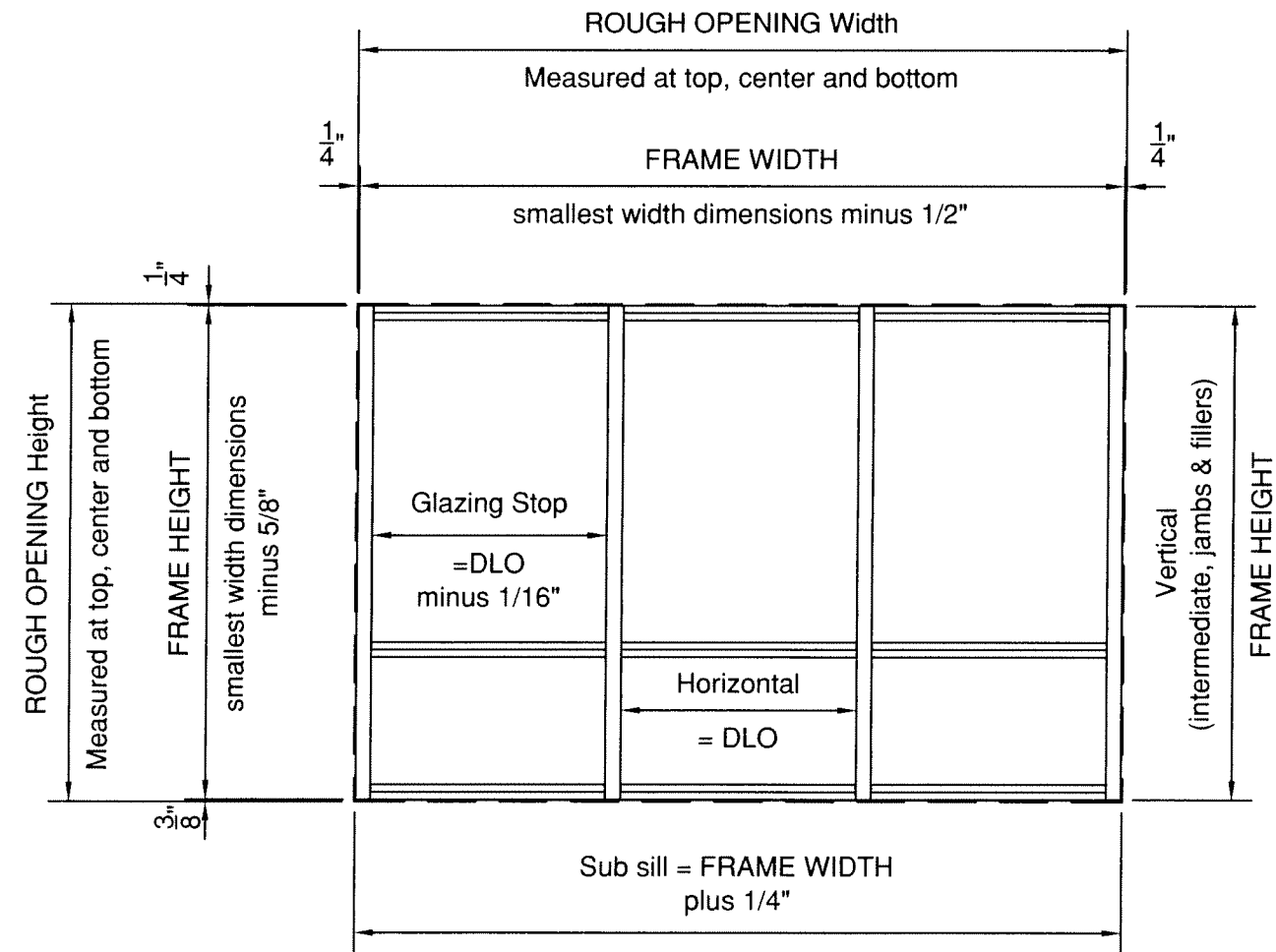
- A. Measure opening at bottom.
- B. Measure opening at center.
- C. Measure opening at top.

The frame width will be the smallest dimension less 1/2" allowing for a 1/4" caulk joint at each jamb.

Repeat process to determine frame height.

- A. Beginning on left side of opening, measure dimension from top to bottom.
- B. Repeat at center.
- C. Repeat at right side of opening.

The frame height will be the smallest dimension less 5/8" to allow for subsill and a 1/4" caulk joint at the head and sill.



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Release 2 Date 01-2010

SHEET

3

OF 16

FRAME FABRICATION

1.2 Cut material to size.

Framing Members

- FG-5180 Subsill flashing at frames without doors ..... Frame Width plus (+) 1/4".  
FG-5180 Subsill at entrance locations ..... Door jamb to Frame Width plus (+)1/8".  
(Subsill is to butt tight against door jamb(s) and is cut 1/8" longer than width of side light(s) on either side of door frame.)

Verticals

- FG-5201 Jambs and FG-2188 Vinyl filler ..... Cut to Frame Height.  
FG-5193 Vertical Mullions and FG-5196 filler ..... Cut to Frame Height.  
FG-5200 Corner Mullion ..... Cut to Frame Height.

Horizontals

- FG-5202 Horizontal and FG-5204 & FG-5206 Head/Sill .... Cut to D.L.O.  
Slide in FP-5190 Glass Stops ..... Cut D.L.O. minus(-) 1/16"  
FG-2188 Channel Filler ..... Cut D.L.O. minus(-) 1/16"

1.3 Drill or punch holes in verticals for attaching horizontals.

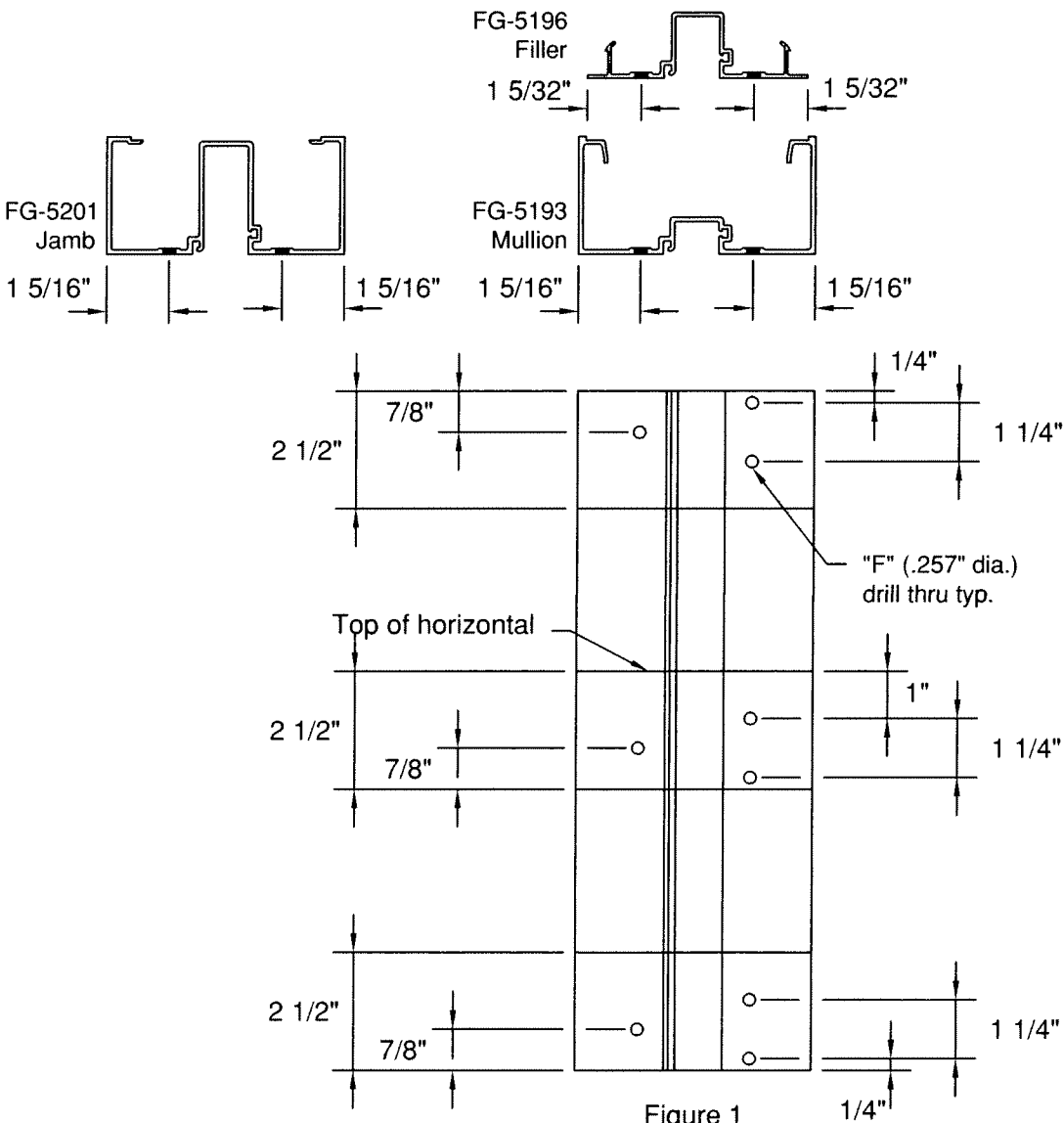


Figure 1  
Vertical Mullion Fabrication

1.4 Fabricate steel reinforcement where required.

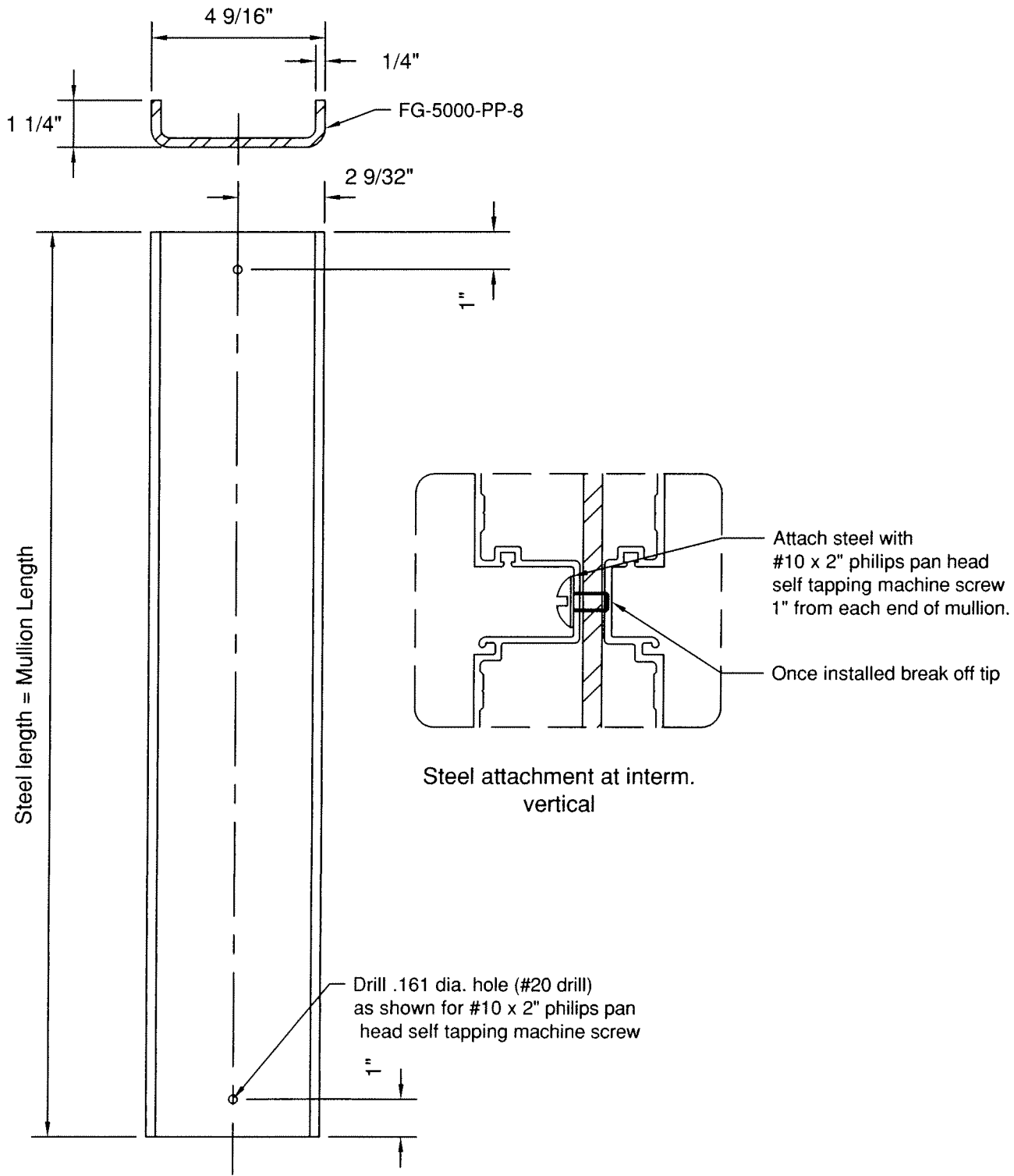


Figure 2  
Steel Reinforcing



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Release  
2  
Date  
01-2010  
SHEET

FRAME FABRICATION

DRY & WET GLAZED FRAMING

1.5 Fabricate head and sill for anchor holes, the number of anchors vary based on substrate material. Reference anchor charts for number of anchor holes and locations for each substrate. First hole is always 2" from end, each additional fastener hole are at required minimum spacing.

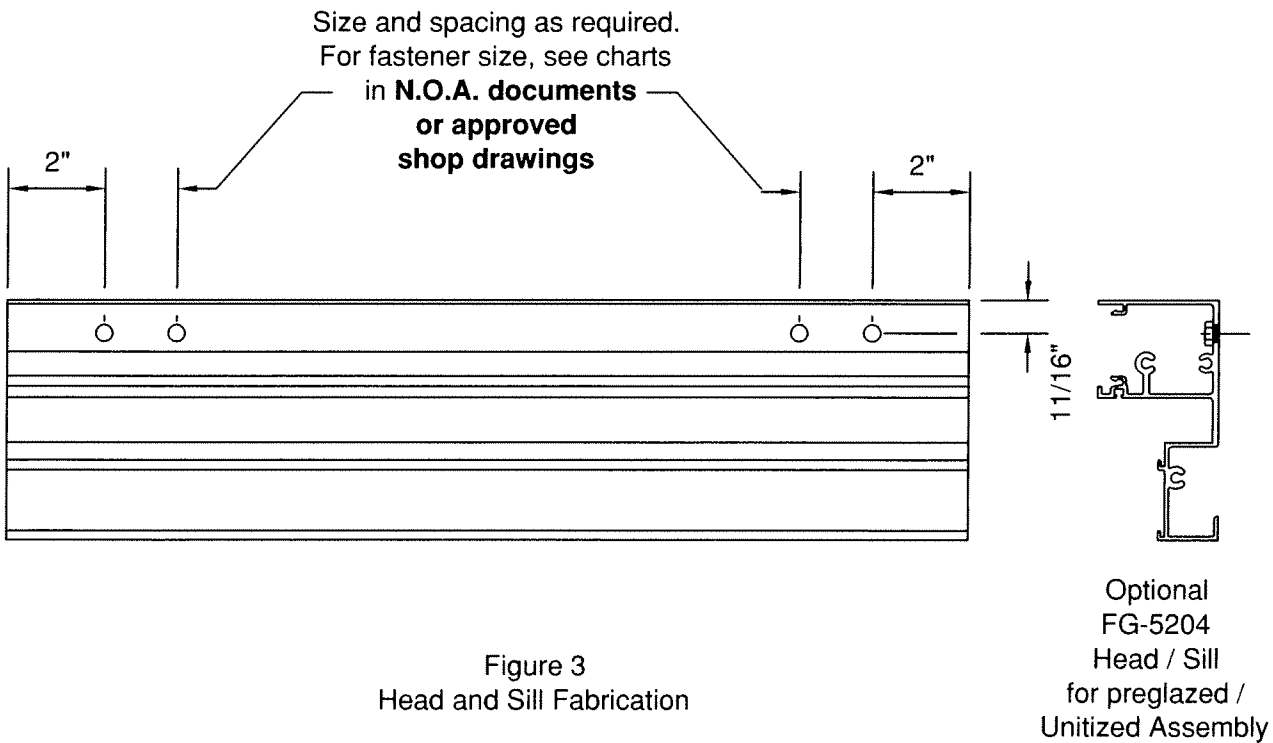
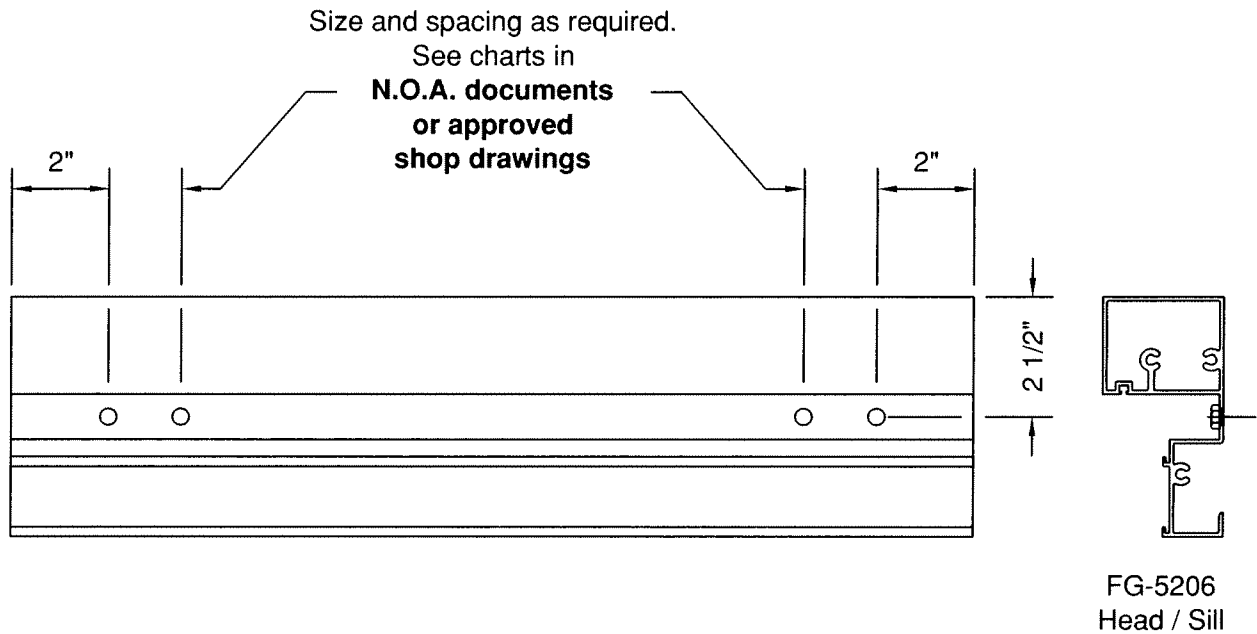
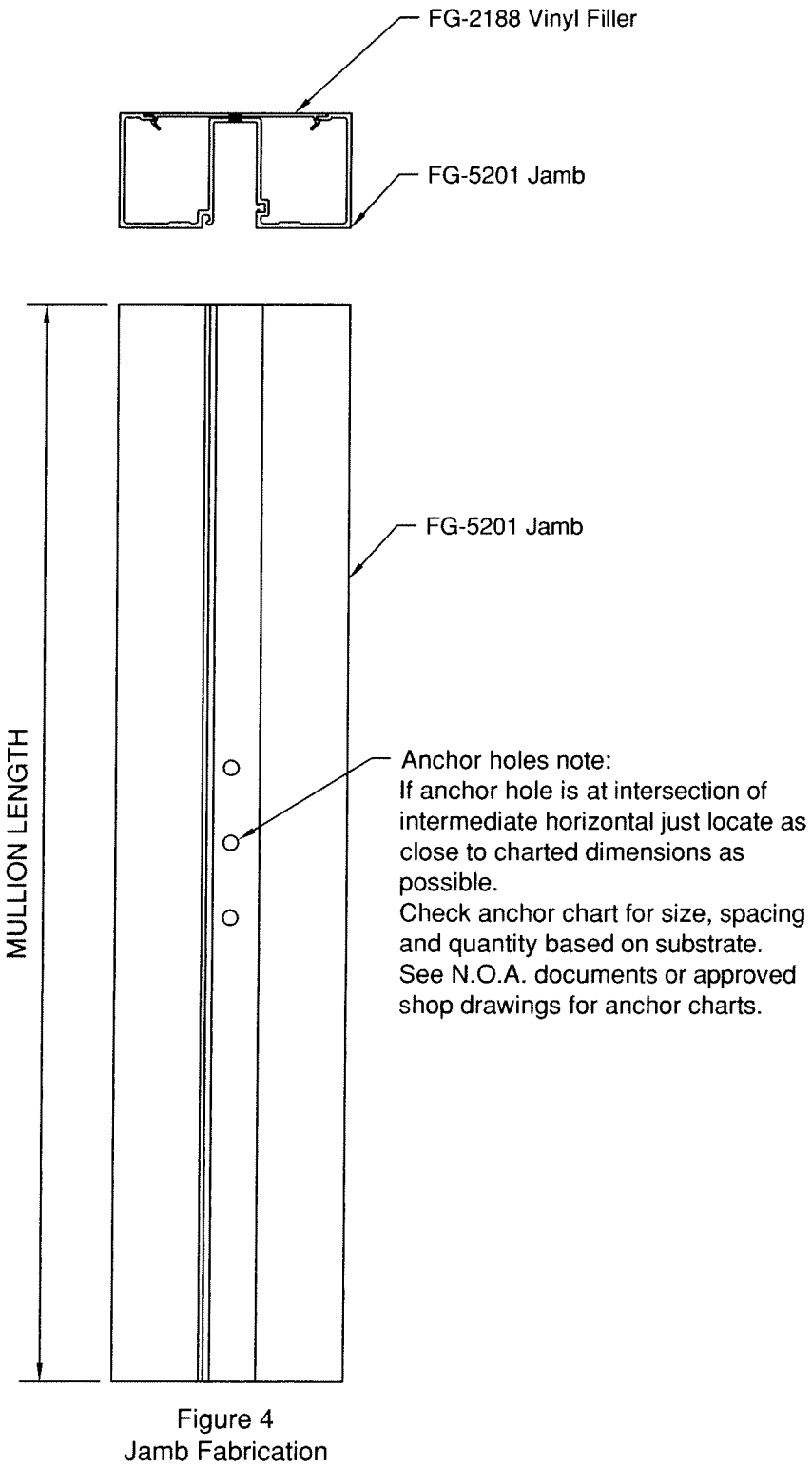


Figure 3  
Head and Sill Fabrication

DRY & WET GLAZED FRAMING

1.6 Fabricate wall jamb for anchor holes. number of anchors vary based on substrate material. Reference N.O.A. anchor charts or approved shop drawings, for locations for each substrate.  
NOTE : refer to 1.3 and figure 1 for hole pattern at head,sill and horizontals.

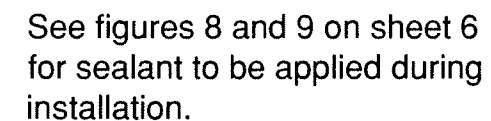


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## FRAME ASSEMBLY

## DRY & WET GLAZED FRAMING

2.1 Apply Isocryl<sup>®</sup> tape to end dam and assemble to subsill.



FG-5000-FP-10  
End dam

FG-5180 Subsill

SM-5601  
Isocryl® Tape  
(OBE part  
# 4666 )

Apply SM-5601 Isocryl<sup>®</sup> tape to end dams as shown and stick to the ends of subsill

FG-5000-FP-10

#10-24 X 3/8 UCPFH

SM-5601 Isocryl® Tape

5/16"

Match drill holes in subsill end dam with 5/32"Ø drill. Attach with two each #10-24 x 3/8" screws as shown.



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FRAME ASSEMBLY

DRY & WET GLAZED FRAMING  
2.2 Frame Panel assembly.

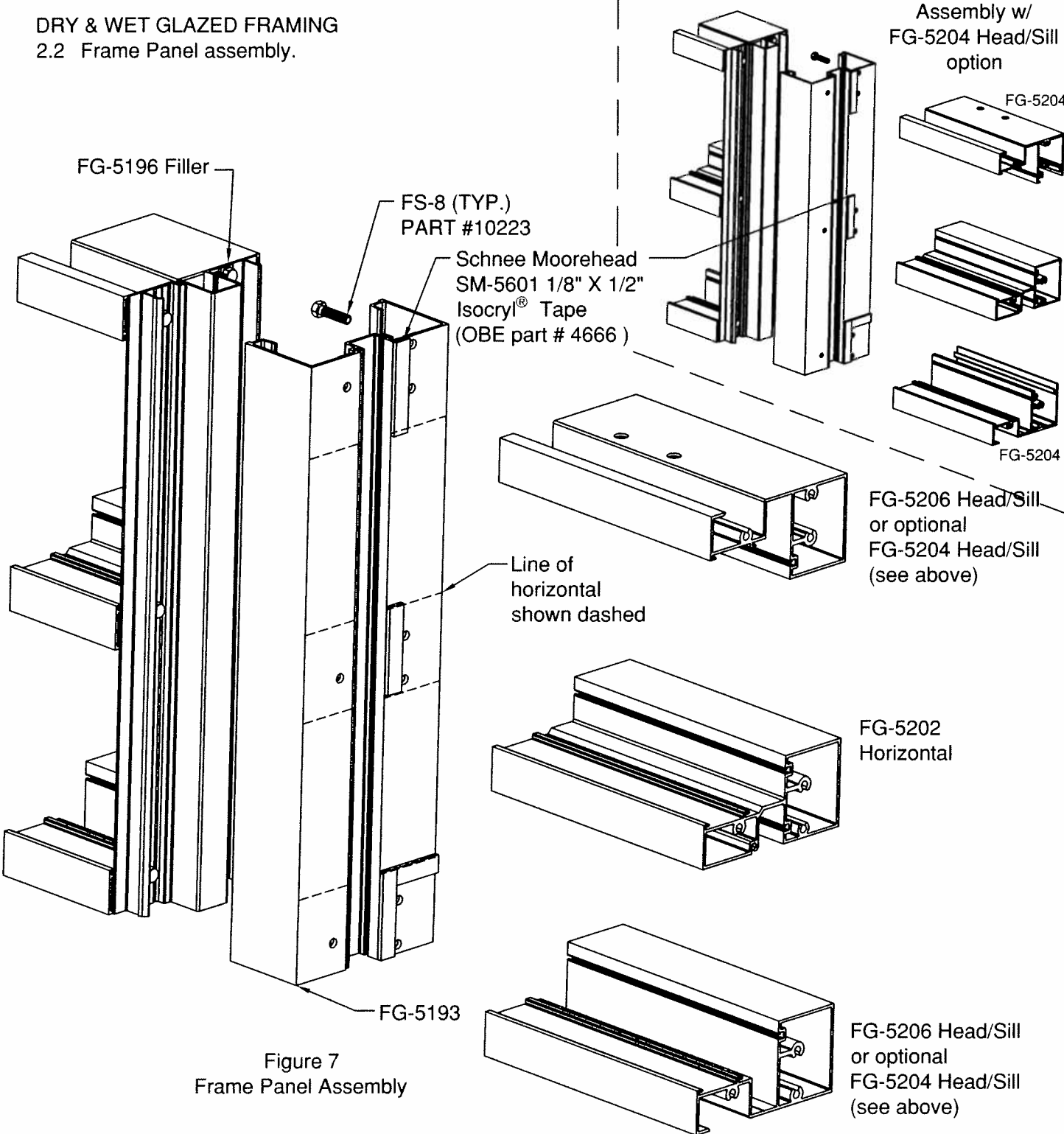


Figure 7  
Frame Panel Assembly

- 2.2.1 Clean framing members at locations where Isocryl® Tape is noted to be attached. SEE FIGURE 7, at tape intersection there should be no gaps.
- 2.2.2 Install FG-5185 Wet Glaze spacer gasket on vertical members, prior to assembling horizontals, sill and head members. Spacer gasket runs through entire length of vertical members. FG-5948 Dry Glaze interior gaskets are installed after assembly **See figure 17 on sheet 11.**
- 2.2.3 Attach horizontals to verticals using (3)FS-8 (#14 x 1" sts spline screws) Trim excess sealant tape at joints with razor knife. DO NOT PULL TAPE TO TRIM. **See sheet 4 figure 1** for hole prep locations.

FRAME INSTALLATION

DRY & WET GLAZED FRAMING  
3.1 Subsill installation

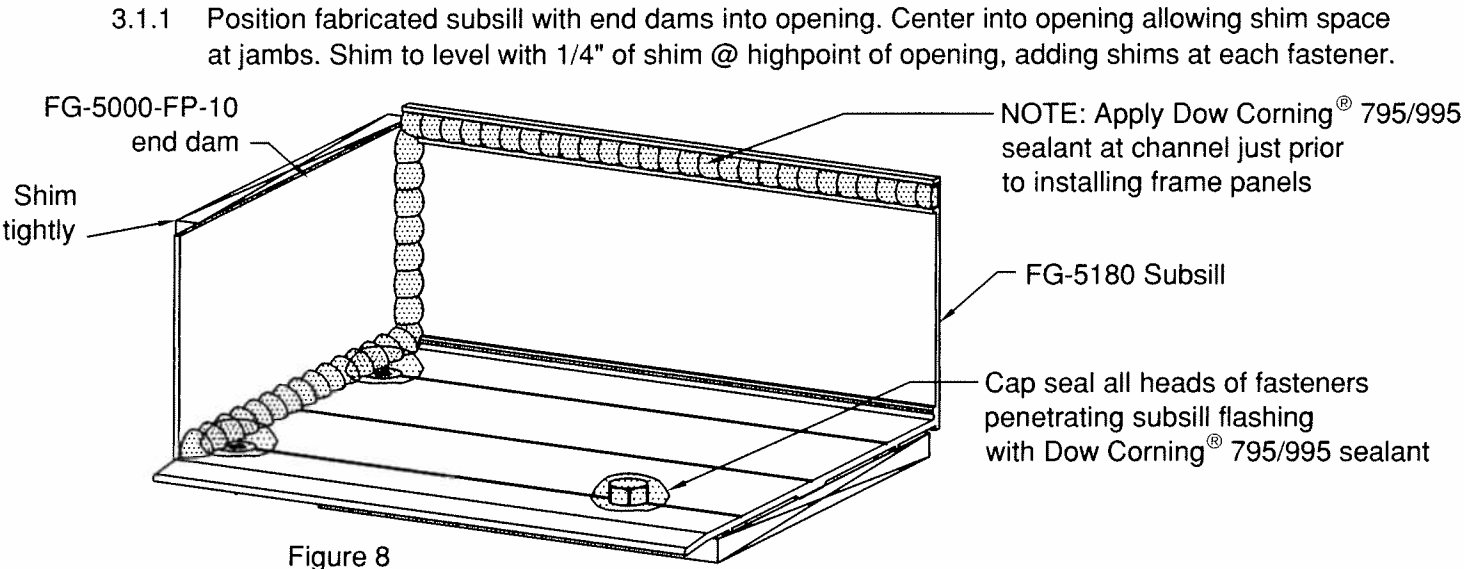


Figure 8  
Subsill Installation and sealing of end dam

- 3.1.1 Position fabricated subsill with end dams into opening. Center into opening allowing shim space at jambs. Shim to level with 1/4" of shim @ highpoint of opening, adding shims at each fastener.
- 3.1.2 Wedge shims tightly between end dams and jamb substrate at each end prior to installing frame panels. These shims prevent the end dams from being dislodged while frame panels are being installed. Completely seal end dams as shown SEE FIGURE 8.
- 3.1.3 Apply sealant to 0.040" alum splice plates as shown at all subsill splices. SEE FIGURE 9.
- 3.1.4 Run a continuous bead of Dow Corning® 795 or 995 sealant along the full length of the sub sill channel as shown above just prior to installing frame panels. Do not allow sealant to harden prior to installing frame panels. Remove excess sealant after panels are installed.

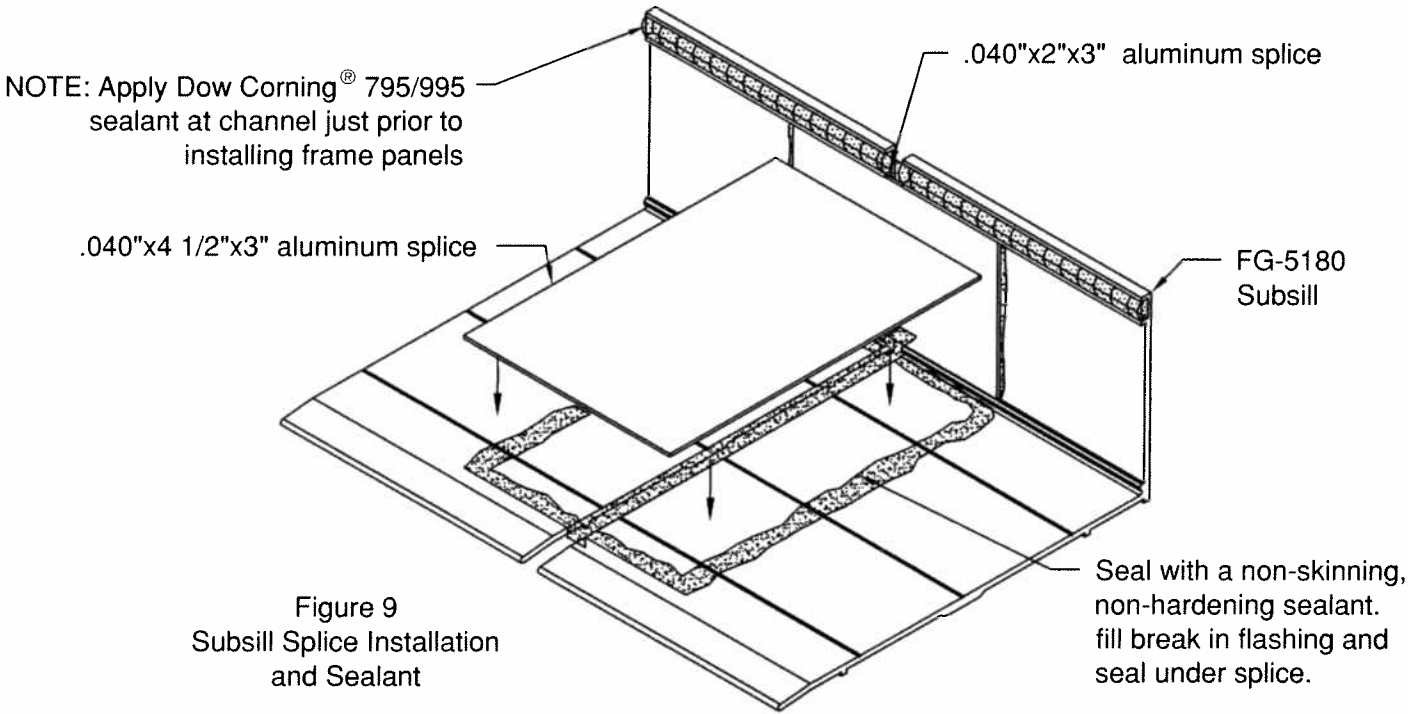


Figure 9  
Subsill Splice Installation  
and Sealant



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FileName	StormMax FG-5000 IM
Release	2
Date	01-2010
SHEET	7



FRAME INSTALLATION

3.2 Installation of framing panels.

3.2.1 Install assembled frame panels into opening starting at either jamb and continue working toward the other jamb until the last frame panel is installed. Ensure that the frame panels are pushed tight against the upright leg of the subsill. Remove excess sealant after panels are installed and anchored.

3.2.2 Prior to assembling each additional panel frame, apply 12" of Dow Corning® 795/995 silicone to bottom of interior snap engagement. See **Figures 10 below**.

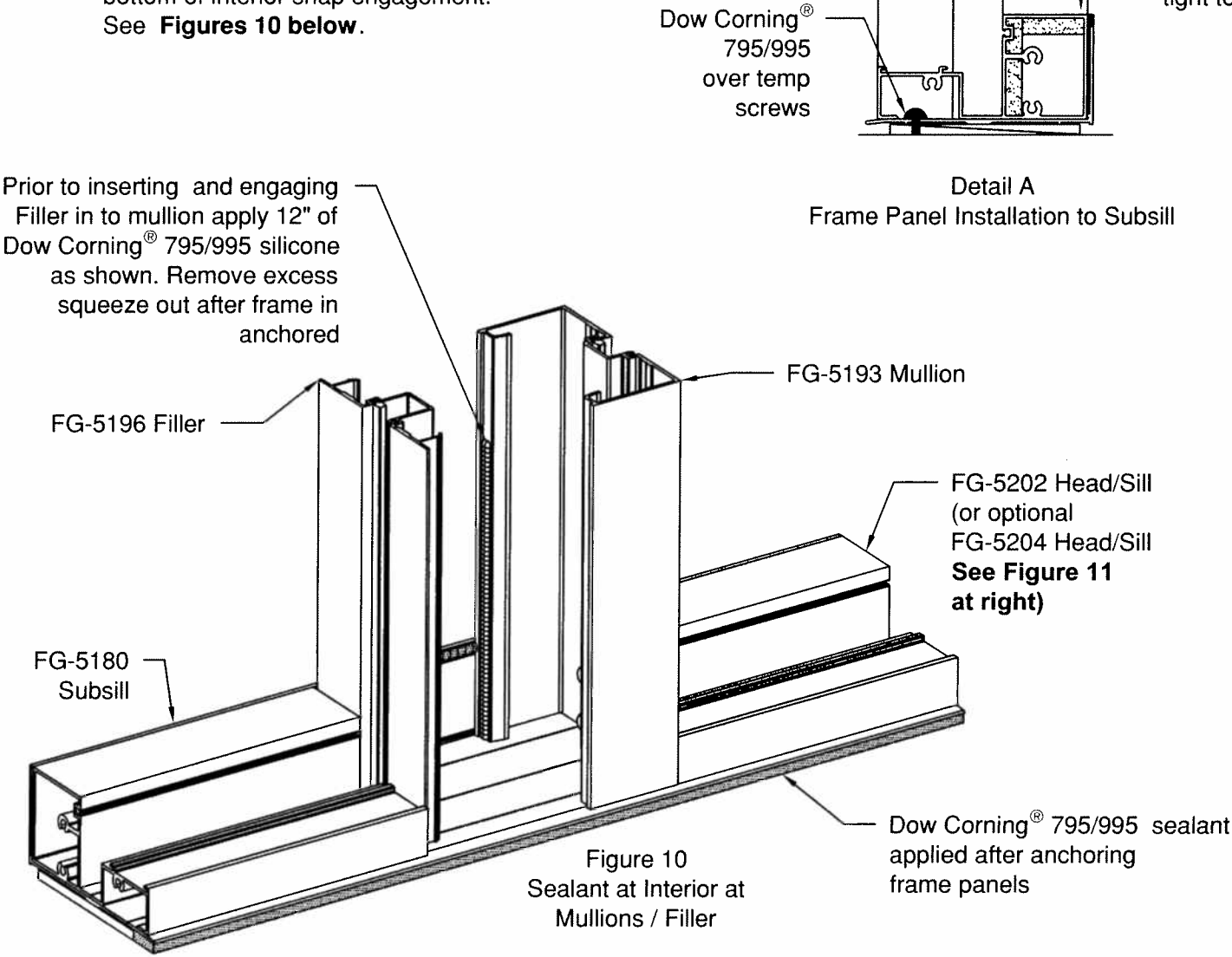


Figure 10  
Sealant at Interior at  
Mullions / Filler

3.2.3 After all panels are installed, shim beneath subsill as required at fasteners. Match drill holes through sill into substrate. Remove dust from holes. Apply sealant into anchor holes prior to anchoring. Cap seal with Dow Corning® 795 or 995 fastener heads.

3.2.4 Plumb vertical mullions, and match drill holes into substrate at head. Anchor and shim as shown. It is not necessary to cap seal fasteners at head. Check D.L.O. and diagonal dimensions every 4 bays to ensure correct spacing and frame squarness to prevent dimensional buildup.

3.2.4 Match drill holes in jamb to substrate. Anchor and shim as required. Cap seal fastener heads.

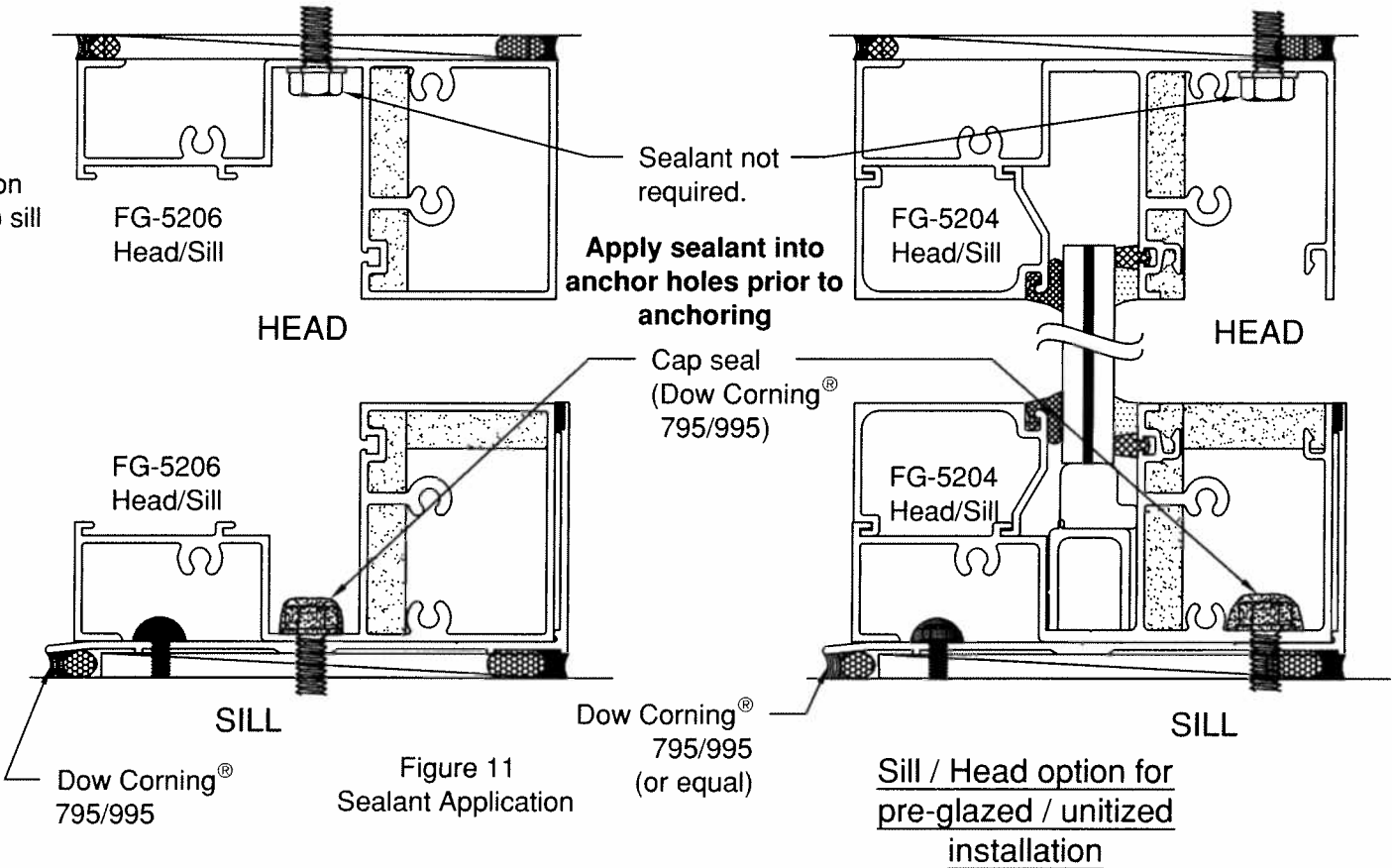


Figure 11  
Sealant Application

3.2.5 Once all individual frames are secured to the opening, then completely seal with a continuous bead of Dow Corning® 795 or 995 silicone sealant or equal, across head and at each jamb. At the sill run a bead across the subsill.

3.3 Interior sealant @ jambs and along subsill  
Starting from the bottom, seal up the jamb to a height of 24". It is not necessary to seal the balance of the jamb on the interior or beneath the interior side of the sub sill flashing other than for cosmetic reasons.

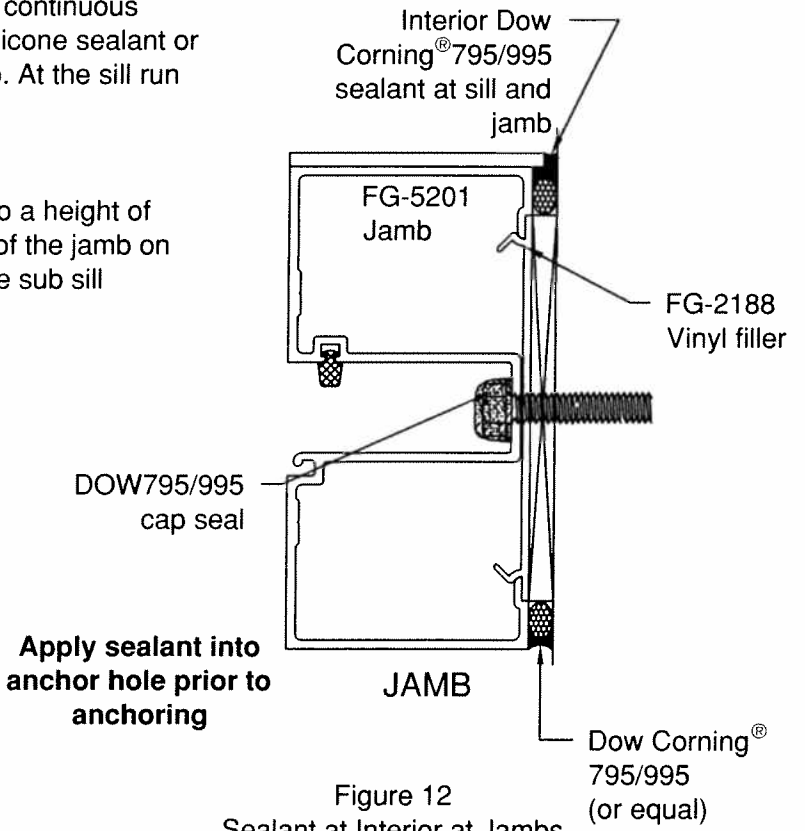


Figure 12  
Sealant at Interior at Jambs



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GLAZING - WET GLAZED OPTION

4W.1 GLAZING PREPARATION -Wet Glazing Option

- 4W.1.1 Remove all debris from glazing pockets to prevent blockage of weeps/drains.
- 4W.1.2 Install water diverters see **Figure 13** after lower lite is in position.
- 4W.1.3 Install FG-5185 spacer gasket in horizontal members  
Note: also install FG-5185 at vertical , if it was not installed prior to attaching horizontals see **Figure 7 on sheet 7** .
- 4W.1.4 At sill, install FG-5192 setting chair (2 per lite at 1/4 points )

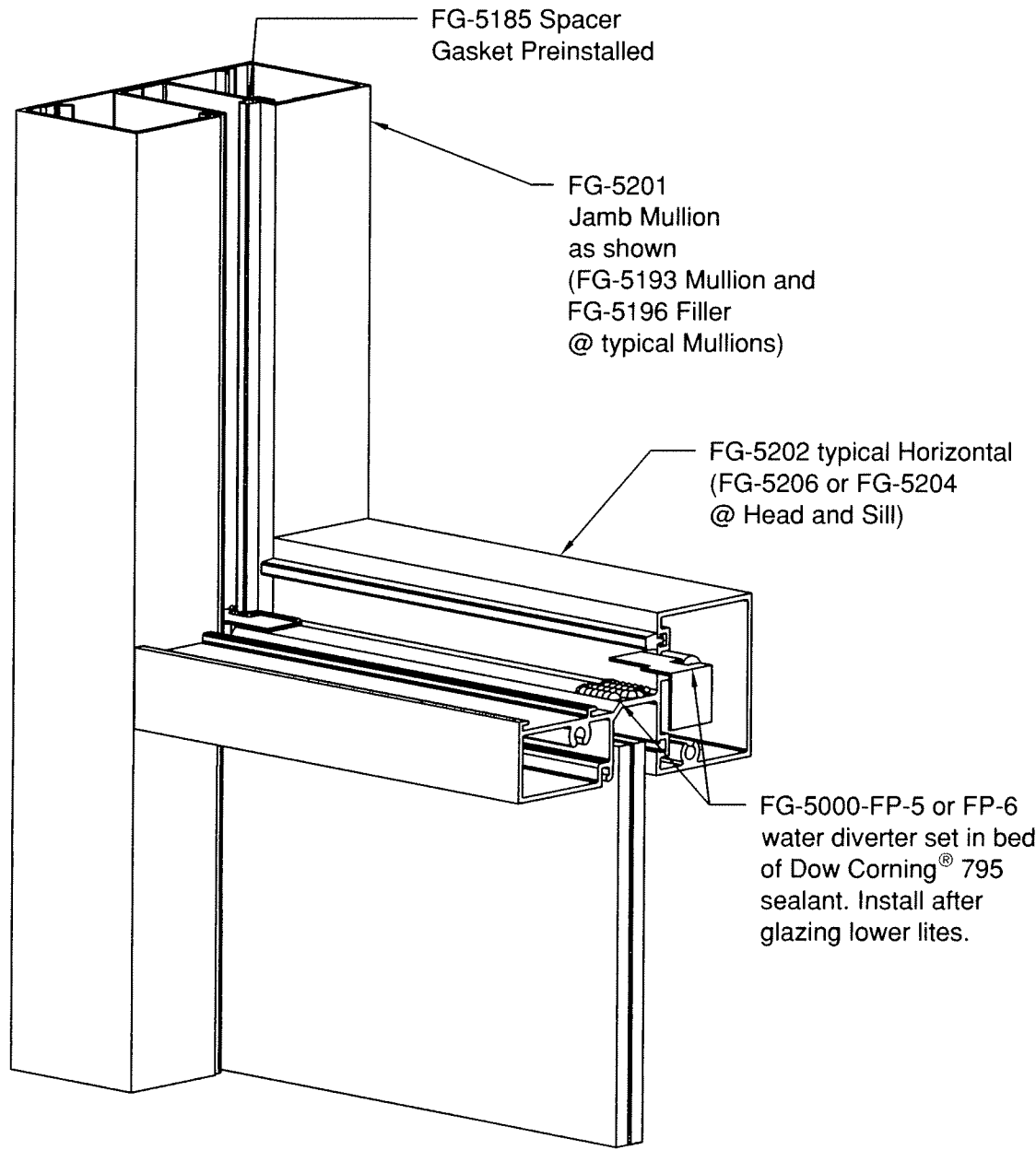


Figure 13  
Water diverter and gasket assembly

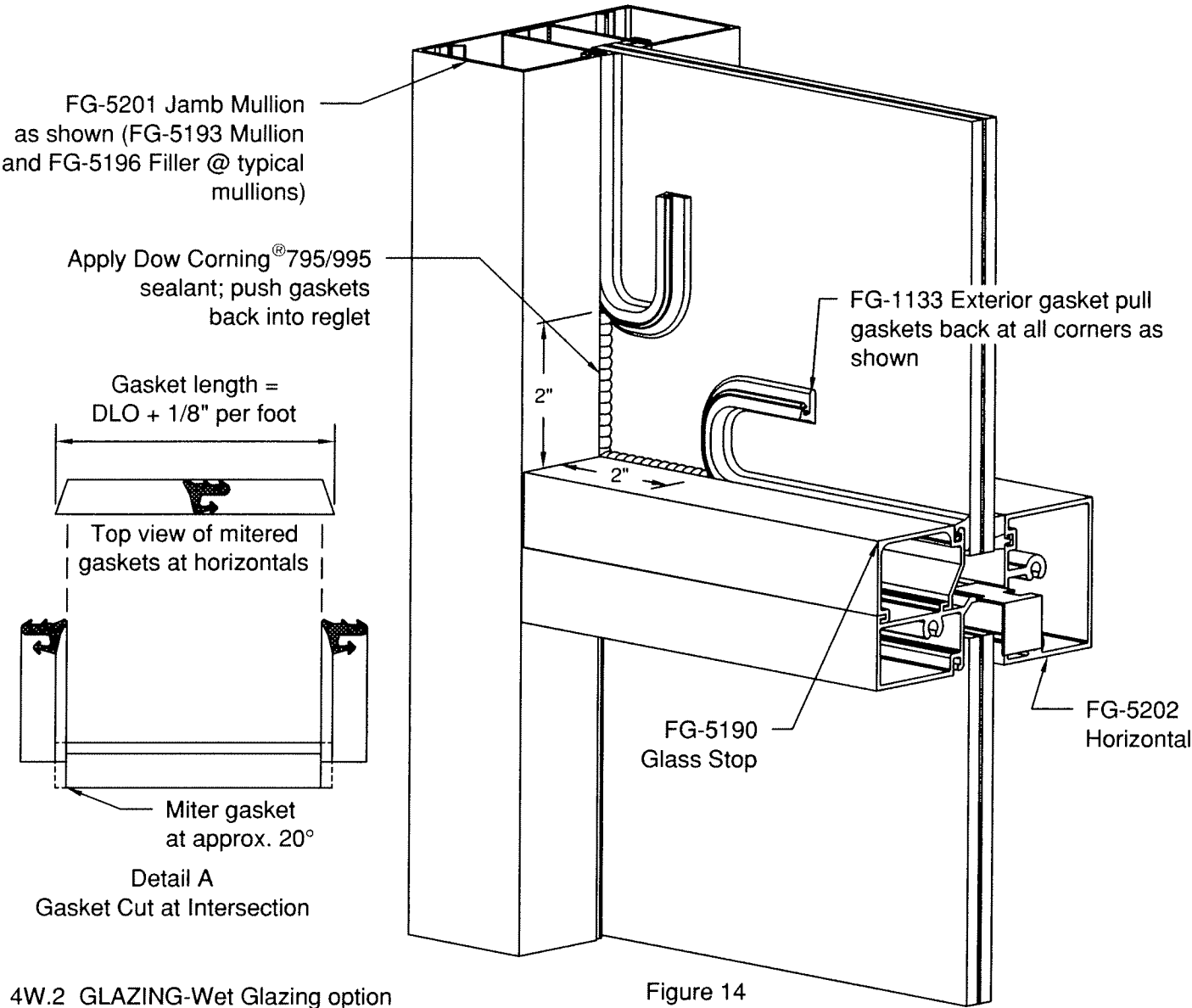


Figure 14  
Exterior Gasket Installation

4W.2 GLAZING-Wet Glazing option

Glaze from bottom to top.

- 4W.2.1 Set glass into opening, push in to deep pocket first, at sill place glass on FG-5192 setting chair, then after centering in DLO , pull glass up and position FG-5199 setting block on setting chair (at 1/4 points) **See figure 16 on sheet 10**. At horizontal same procedure is used, except no setting chair is used.
- 4W.2.2 Install exterior FG-5190 glass stops.
- 4W.2.3 Install exterior FG-1133 glazing gaskets starting at the middle of the glass
- 4W.2.4 Cut gaskets a minimum of 1/8" per foot longer than daylight opening to provide for adequate compression. as shown at **Figure 14 detail A**.
- 4W.2.5 After gaskets are pressed in place. Pull gasket from pocket as shown in Figure 13 above. Clean glass and gaskets a minimum of 2" from each end with isopropyl alcohol. Apply Dow Corning® 795/995 sealant see Figure14. Push gaskets into reglet, **See figure 15 on sheet 10**.

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StormMax FG-5000 IM	
Release	Date
2	01-2010
SHEET	
9	
OF 16	

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GLAZING - WET GLAZED OPTION

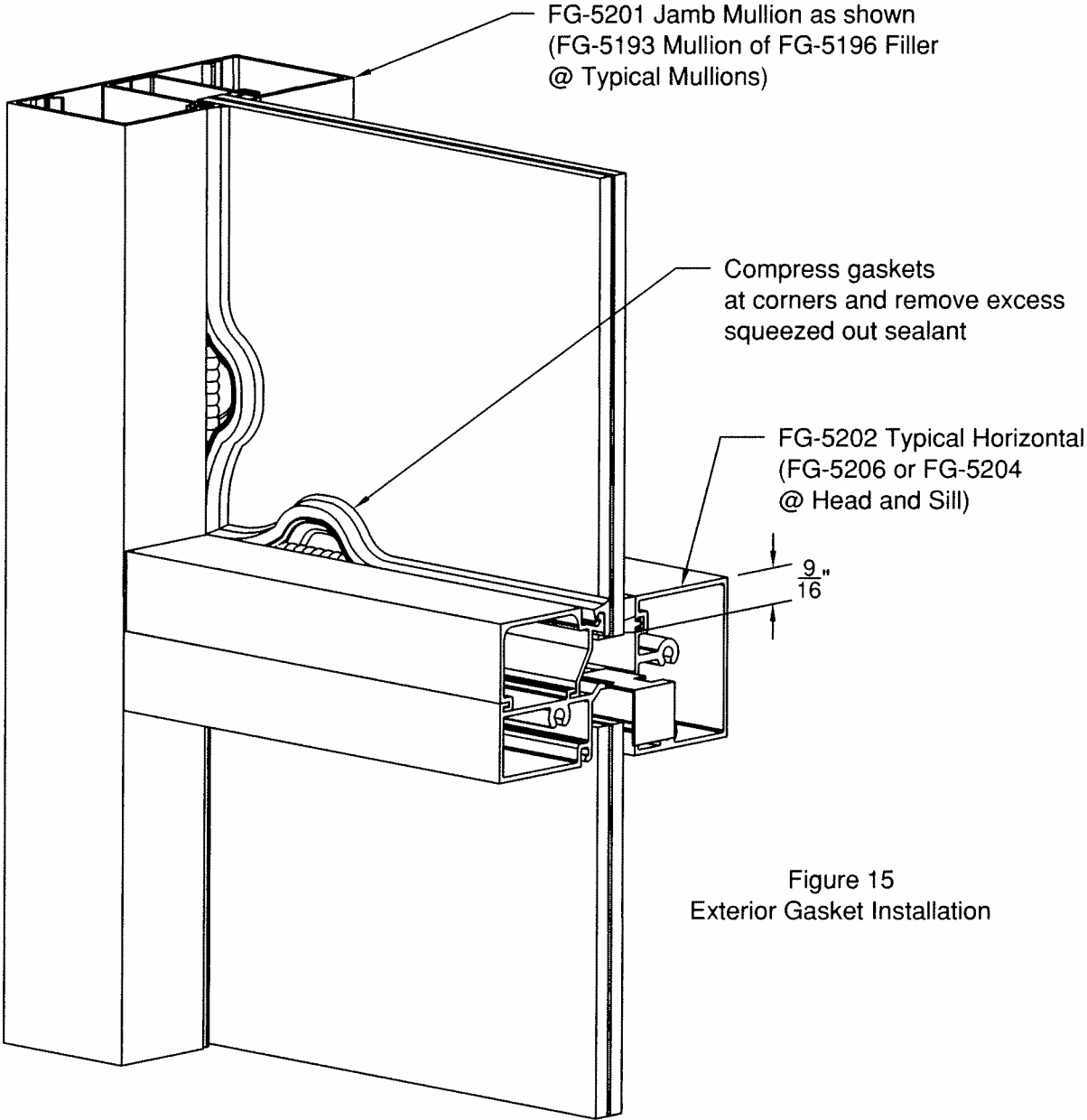


Figure 15  
Exterior Gasket Installation

4W.2 GLAZING-Wet Glazing option (Continued)

4W.2.6 Mask off glass and aluminum with 1" wide (minimum) low adhesion masking tape. **SEE Figure 16.** Working a single DLO at a time, Fill cavity around full perimeter of DLO with Dow Corning® 995 sealant as shown, care should be taken not to leave any voids and eliminate air bubbles in sealant **(See Detail. A).** Immediately tool , creating a finished joint with a beveled/curved joint surface **See detail B above right.**

4W.2.7 Remove masking tape 10 minutes after tooling; taking care not to damage tooled sealant.

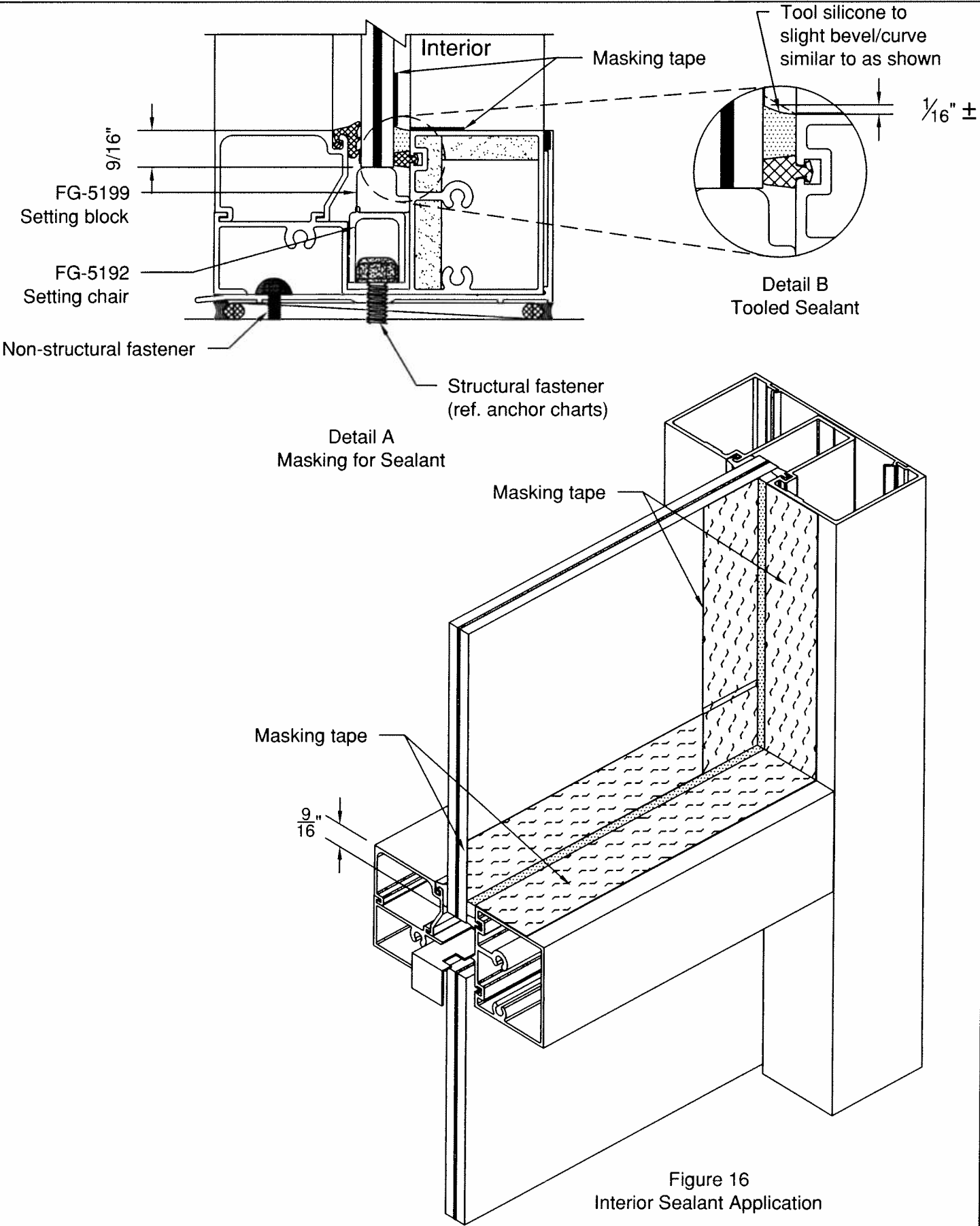


Figure 16  
Interior Sealant Application

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StormMax FG-5000 IM

Release	Date
2	01-2010

SHEET

10  
OF 16

StormMax FG-5000 INSTALLATION & GLAZING MANUAL

GLAZING - DRY GLAZED OPTION

FG-5201 Jamb Mullion as shown  
(FG-5193 Mullion of FG-5196 Filler  
@ typical mullions)

FG-5948 interior gasket  
cut to DLO plus 1½"(min)

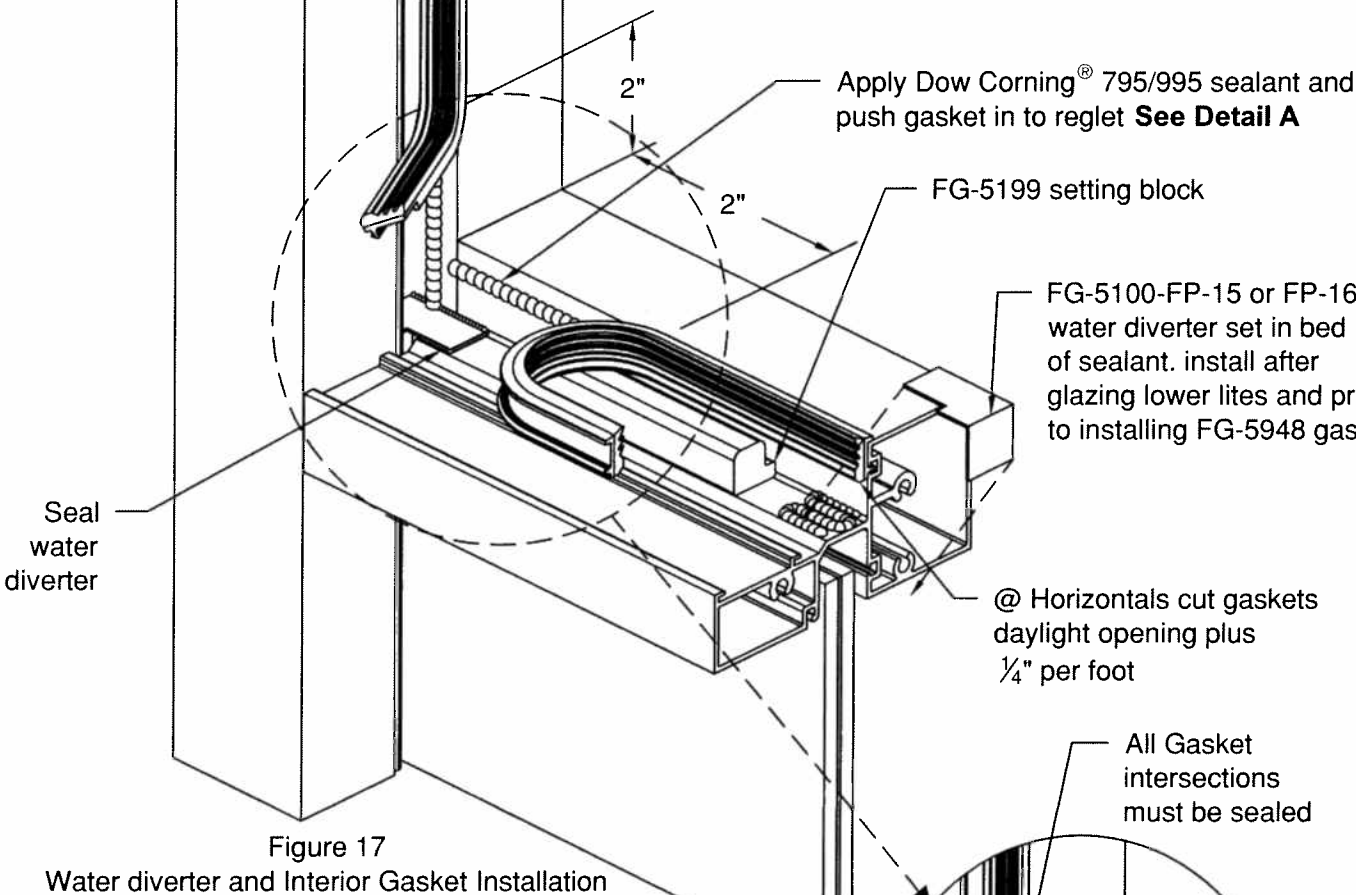
4D.1 GLAZING PREPARATION -Dry Glazing option

4D.1.1 Remove all debris from glazing pockets to prevent blockage of weeps/drain.

4D.1.2 Install water diverters as shown on at **Figure 17** after lower lite is in position.

4D.1.3 Install FG-5948 interior gaskets

- @ vertical mullions gasket is cut to DLO plus 1 1/2" (see detail "B" for notch)
- @ horizontals gasket is cut to DLO plus ¼" per foot of length,
- Start installation @ middle of DLO's.

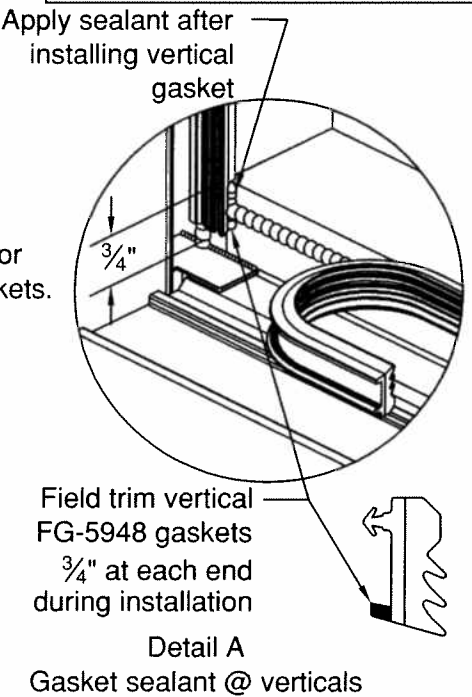
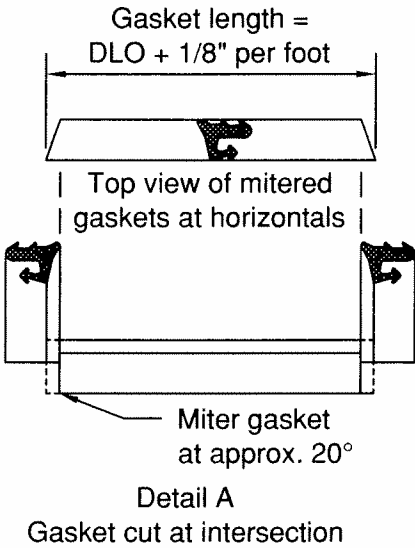


4D.1.4 After gaskets are pressed in place, pull gasket from pocket as shown in **Figure 17** above. Clean glass and framing a minimum of 2" from each end. Apply Dow Corning® 795/995 sealant to gasket raceway, **see Figure17**. Push gaskets into reglet, **See Details A & B at right**.

4D.1.5 At sill, install FG-5192 setting chair (2 per lite at at 1/4 points )

Seal water diverter

Detail B  
Compression of Gasket at Intersections



Compress  
gasket  
at corners

4D.2 GLAZING-Dry Glazing option, Glaze from bottom to top.

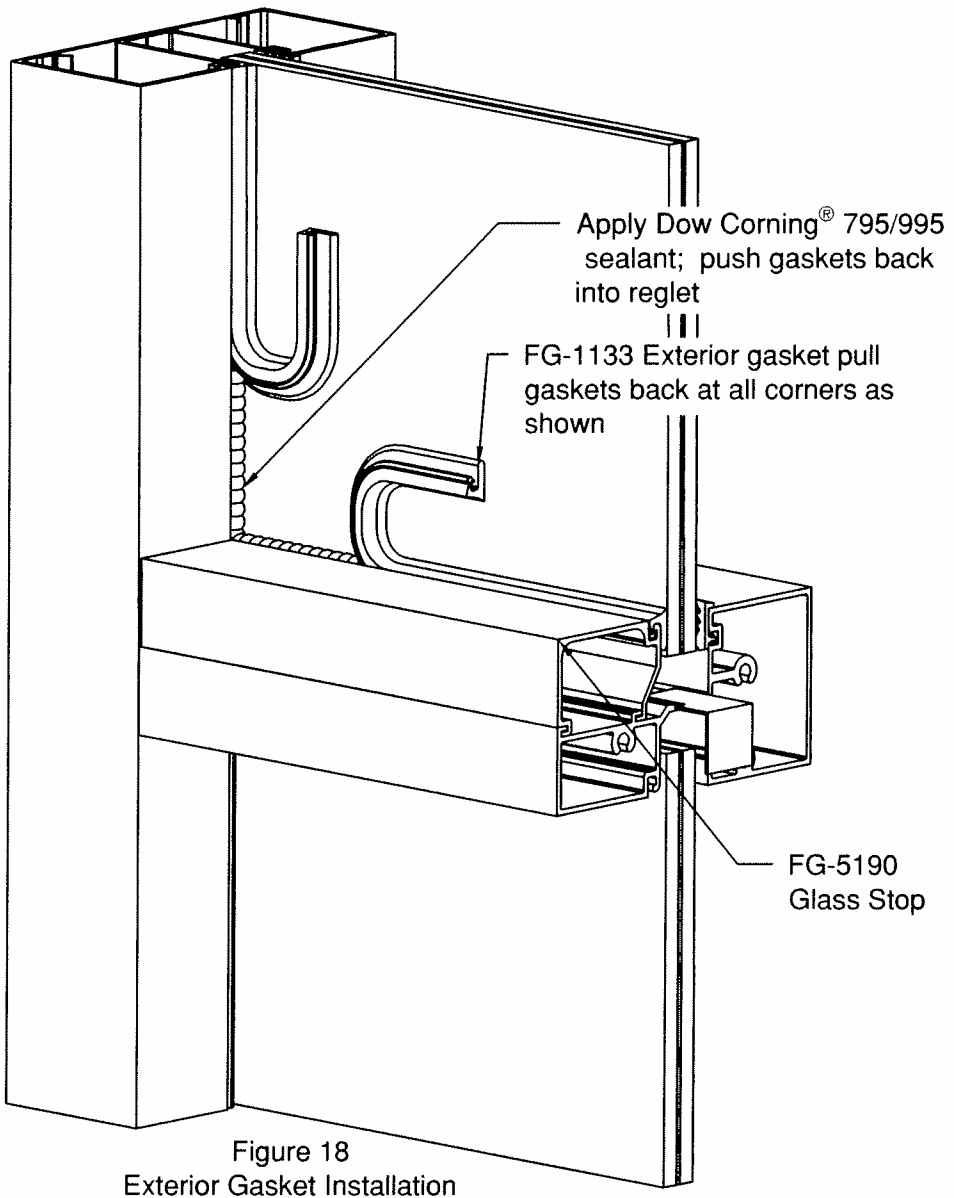
4D.2.1 Set glass into opening, at sill place glass on FG-5192 setting chair, then after centering in DLO , pull glass up and position FG-5199 setting block on setting chair (at 1/4 points). At horizontal same procedure is used, except no setting chair is used.

4D.2.2 Install exterior glass stops.

4D.2.3 Install exterior FG-1133 glazing gaskets starting at the middle of the glass

4D.2.4 Cut gaskets a minimum of 1/4" per foot longer than daylight opening to provide for adequate compression. as shown at **detail C** above.

4D.2.5 After gaskets are pressed in to place, pull gasket from pocket as shown in Figure 18 above. Clean class and gaskets a minimum of 2" from each end with isopropyl alcohol. Apply Dow Corning® 795/995 sealant see Figure18. Push gaskets into reglet, **See figure 19 on sheet 12**.



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SHEET

11  
OF 16

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GLAZING - DRY GLAZED OPTION

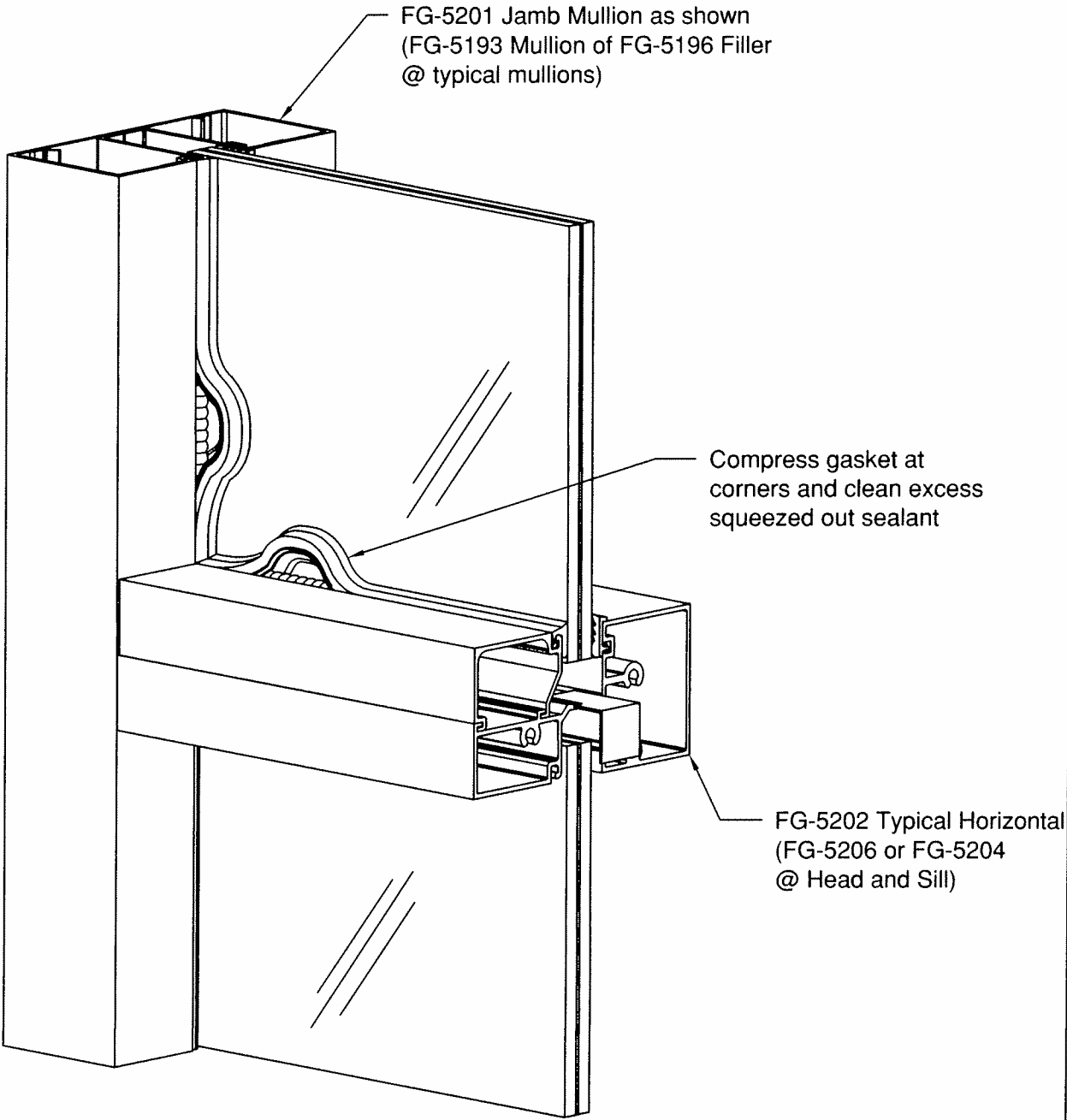
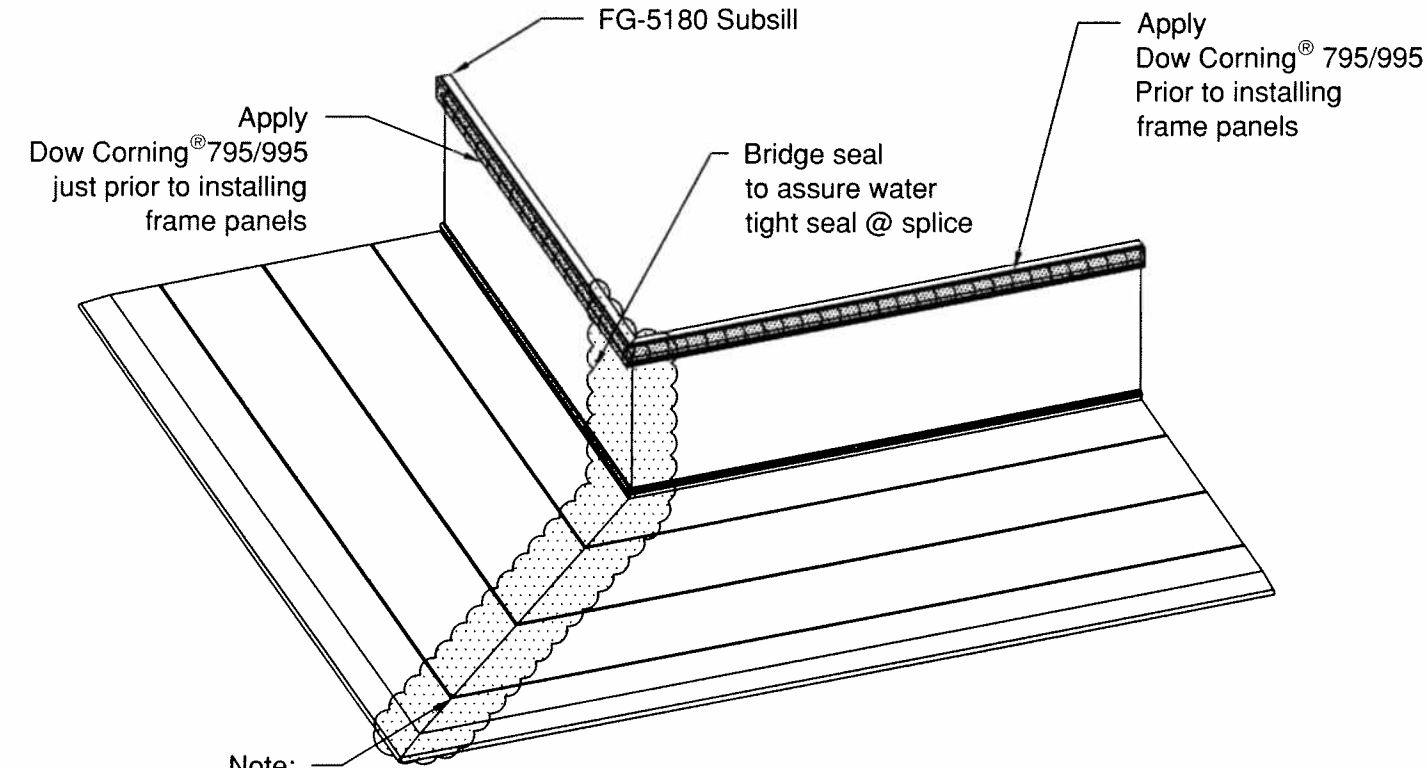


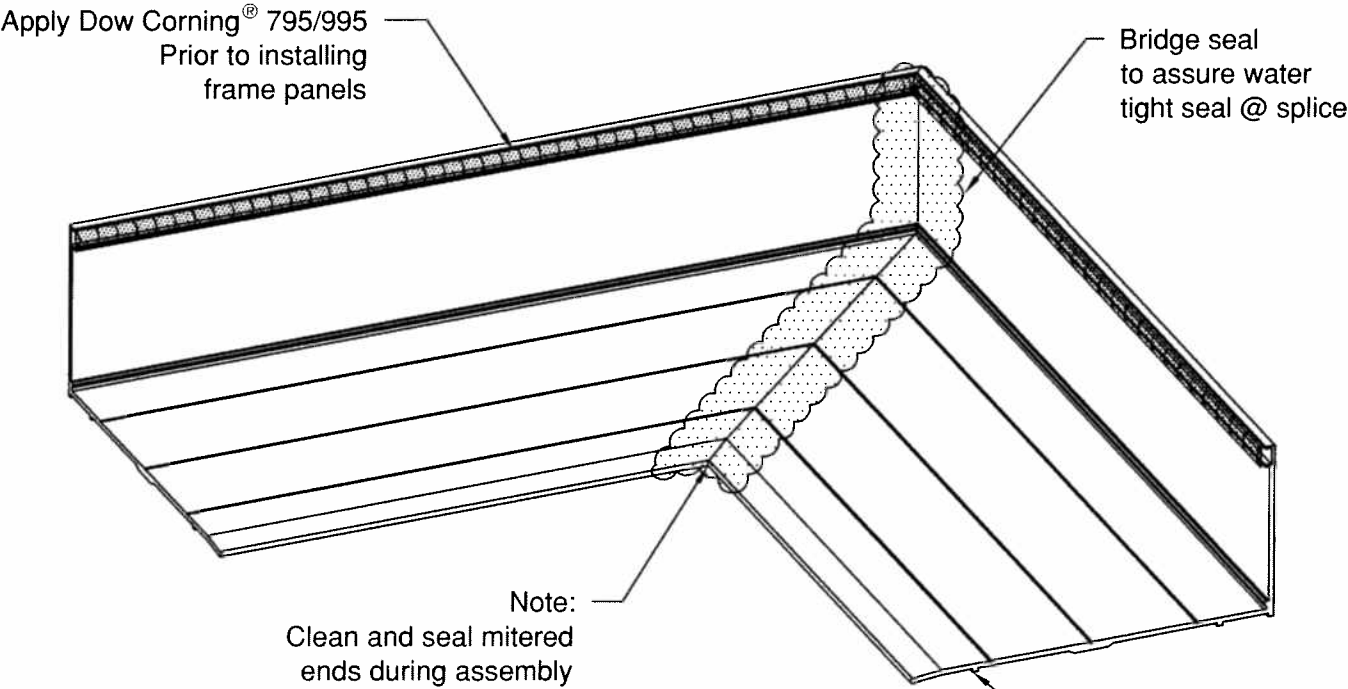
Figure 19  
Compress Exterior Gasket at Corners

CORNER MULLION ASSEMBLY



Note:  
Clean and seal mitered  
ends during assembly

Figure 20  
Subsill Splice at Outside Corner



Note:  
Clean and seal mitered  
ends during assembly

Figure 21  
Subsill Splice at Inside Corner

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SHEET

12  
OF 16

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CORNER INSTALLATION

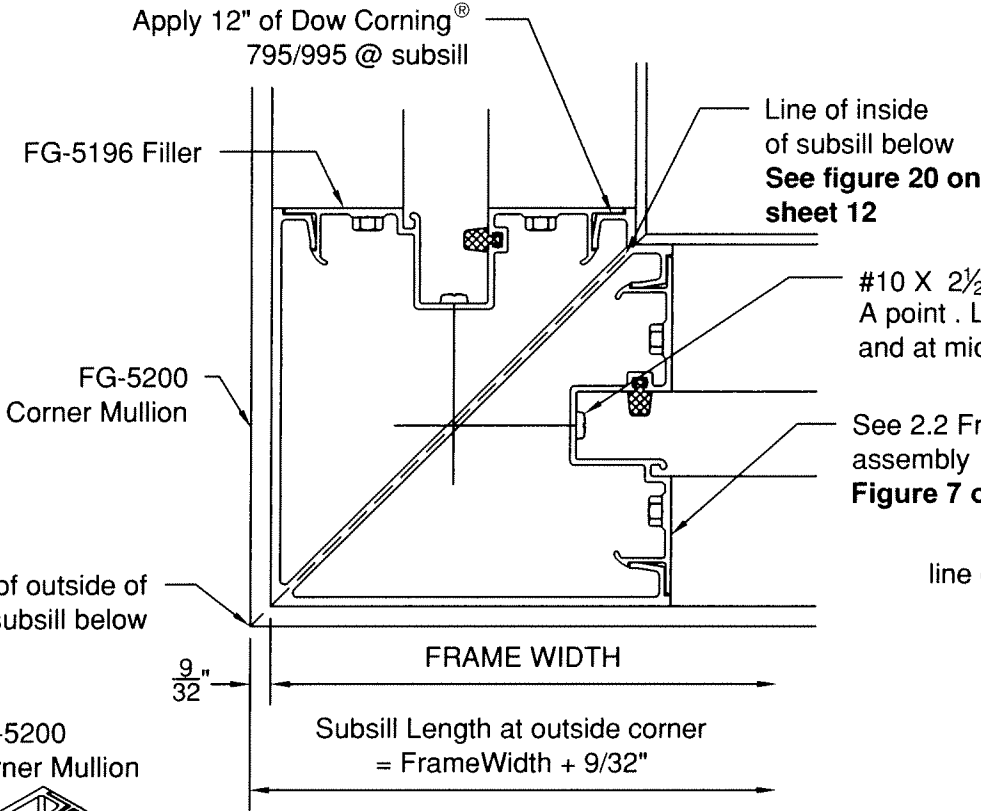


Figure 22  
Outside Corner Mullion

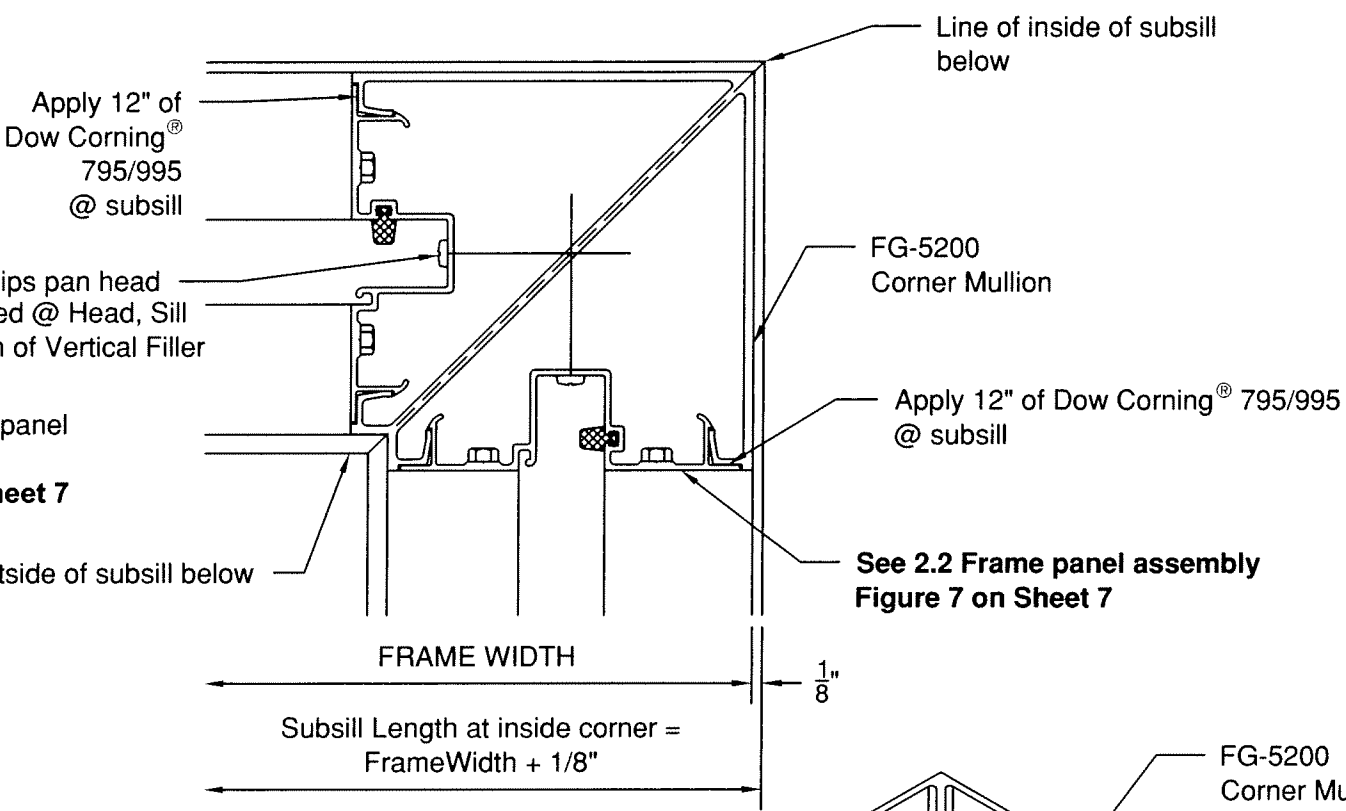


Figure 23  
Inside Corner Mullion

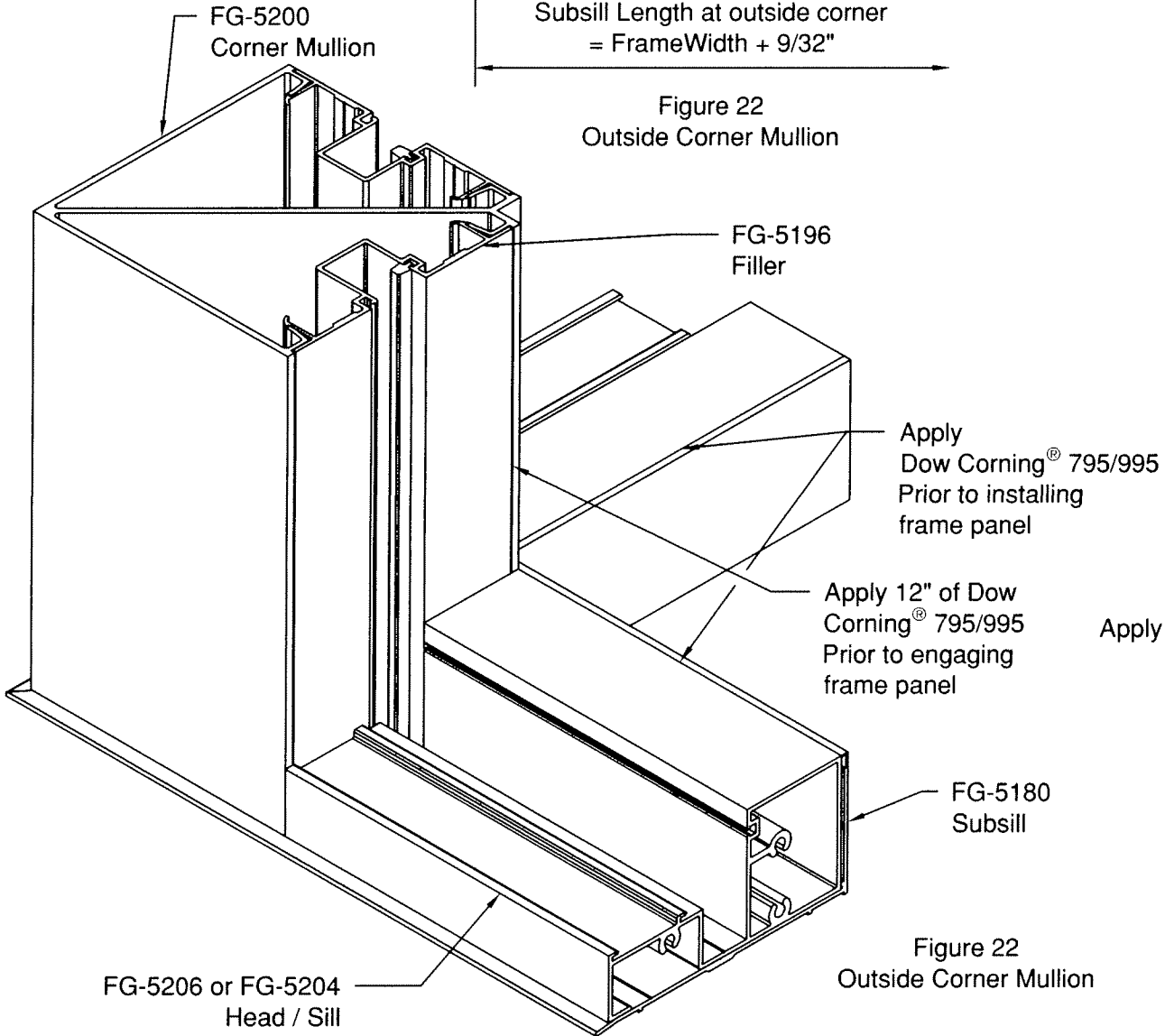


Figure 22  
Outside Corner Mullion

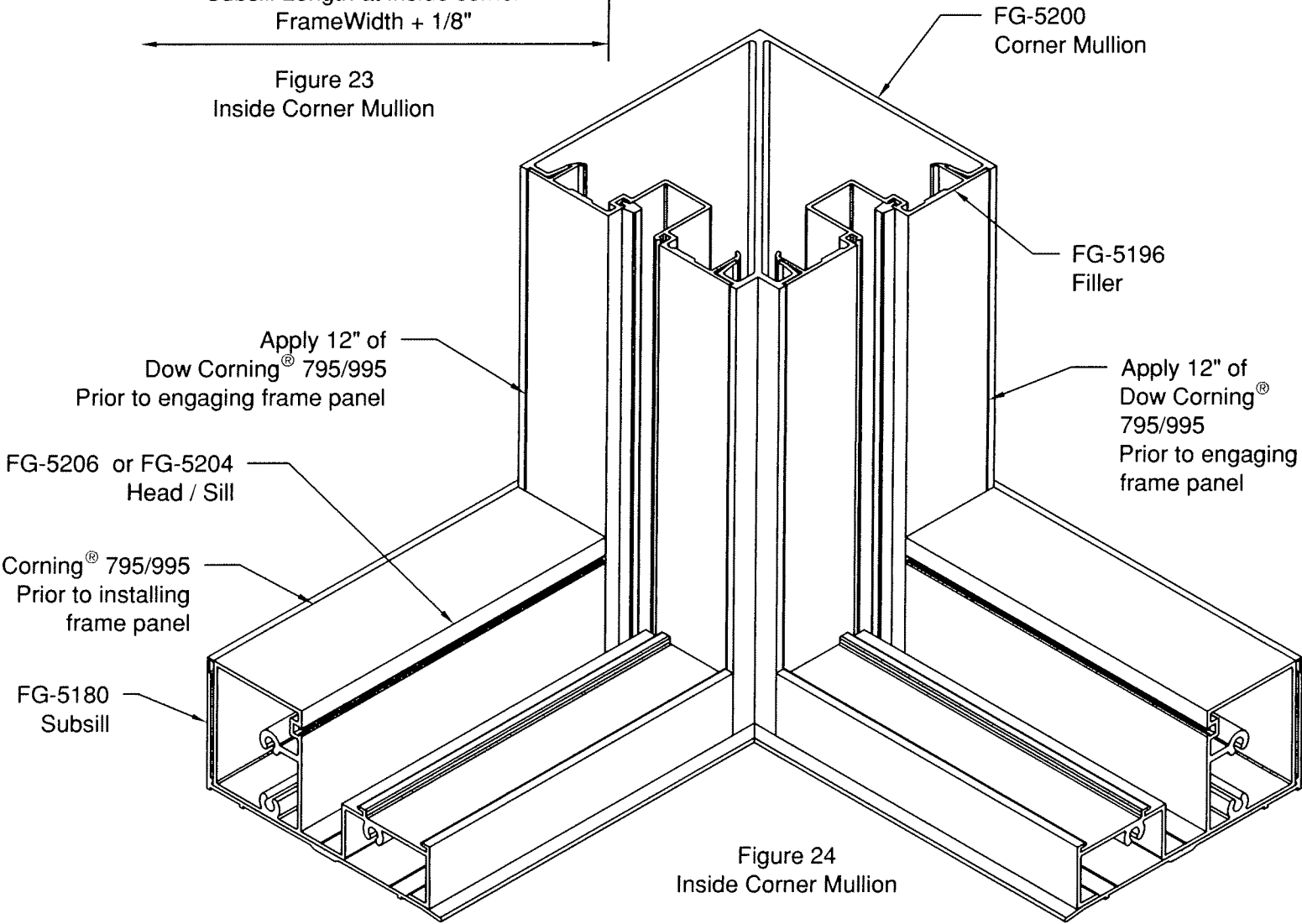


Figure 24  
Inside Corner Mullion



StormMax FG-5000  
Installation and Glazing Manual

General Notes

Installation & Glazing Manual  
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StormMax FG-5000 IM  
Release 2 Date 01-2010  
SHEET

DOOR INSTALLATION

6.1 PREPARATION OF DOOR FRAME

- All hardware back-up plates are installed in the frame at the factory. Door stops and transom sash will have been cut to length and prepped in the factory.
- Stock transom frames are fabricated for a vertical frame size of 120". If your opening is smaller, cut the verticals and the sash down to the appropriate length; leaving a maximum 1/4" caulk joint at the head. The prep for the transom head horizontal should be made using either a drill fixture or EZ-punch die sets for the series FG-5000 framing.
- Review frame anchor charts in N.O.A. or approved shop drawings, for configuration and substrate for which the frame will be attached. Drill anchor holes into FG-5168 door jamb, FG-5167 flat filler and TH-57 threshold as shown in charts. (Note: CW-998 bulb gasket is not required in the FG-5168 jamb at wall).

- 6.1.1 Attach frame portion of offset pivots to frame if applicable.
- 6.1.2 Apply Schnee-Morehead SM-5601 1/8" x 1/2" Isocryl<sup>®</sup> tape (OGEP part # 4666) to joint intersections at door header or transom bar and transom head horizontal.

Note: Keep tape away from screw splines.

- 6.1.3 Assemble frame and threshold with FS-8 spline screws or use alternate threshold clips and fabricate two holes in each end of threshold as shown below. Snap-in transom sash if applicable. The frame is now ready for installation.

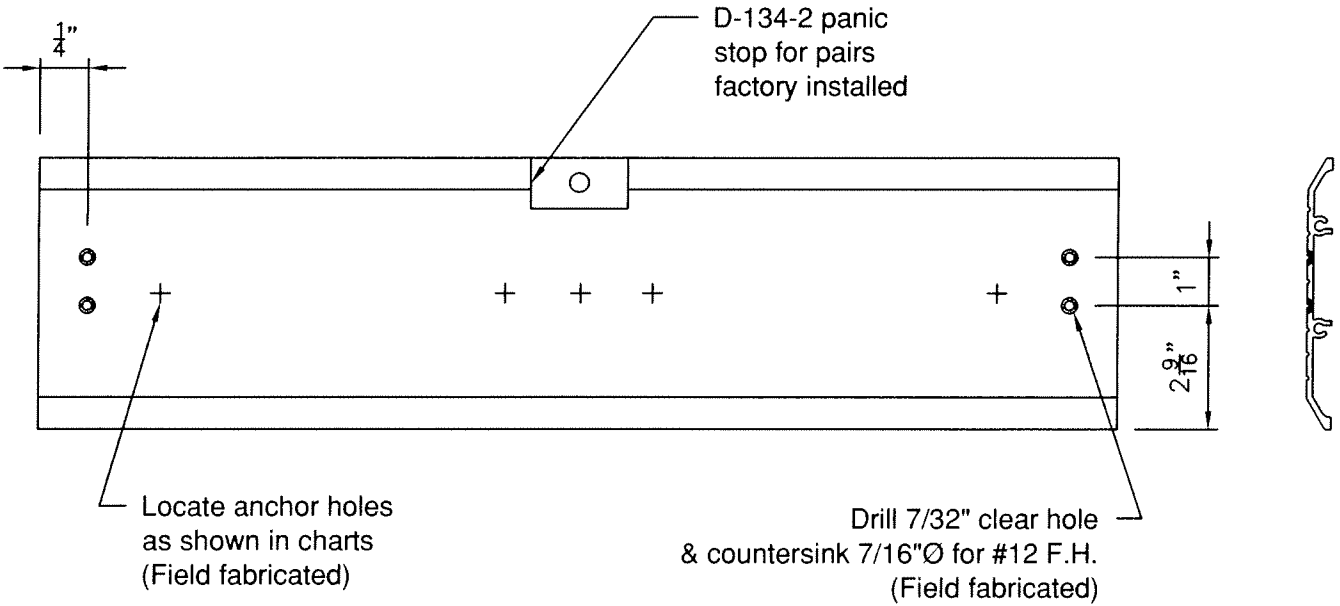


Figure 25  
Threshold Fabrication

6.2 INSTALLATION OF DOOR FRAME

Door frame and threshold shall be completely assembled with joints neatly aligned and tight. Door frame shall be installed square and plumb. Measure frame diagonally from corner to corner and shim until the measurements are equal.

- 6.2.1 Level door frame threshold at the high point in the slab. It is preferable to not have a high point in the slab. The door frame is designed to have the jambs run down to the slab. Install fasteners through frame and threshold anchor holes and securely anchor to the substrate. Position shims between framing and substrate to prevent members from bowing.
- 6.2.2 Install door stops.

You are now ready to install the door.

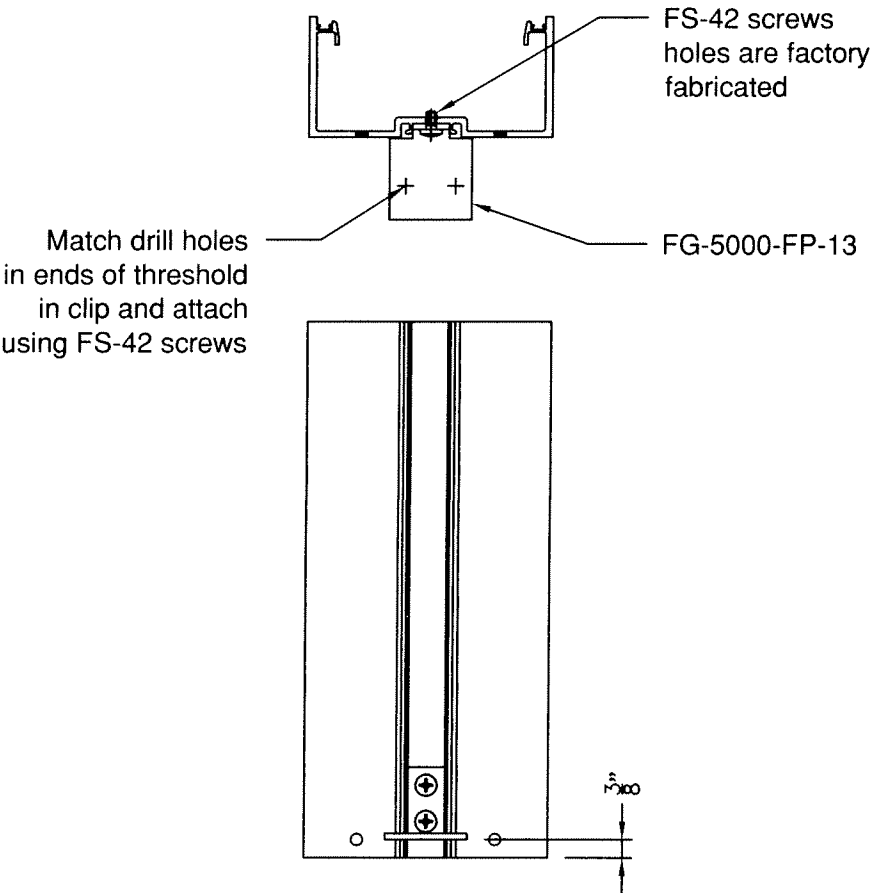


Figure 26  
Alternate Threshold Attachment to Jamb



StormMax FG-5000  
Installation and Glazing Manual  
General Notes  
Installation & Glazing Manual  
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StormMax FG-5000 IM  
Release 2 Date 01-2010  
SHEET



DOOR INSTALLATION

6.3 DOOR PREPARATION AND GLAZING

FP-5000-PP1 setting block/side block, V-2108 (1/4" x 1/4") spacer gasket, FS-114 (#8 x 3/8" PPHSMS) fasteners for attaching D-152 glass stop and FG-1133 gasket are shipped loose.

6.3.1 Install D-152 glass stop, this may be installed on either interior or exterior side of the door. It is recommended that D-152 be installed on the interior side of the doors receiving panic hardware to allow for reglazing without removing the panic bars.

6.3.2 Pilot holes are predrilled in D-152 glass stop. Determine side of door you desire to place the glass stop and match drill holes into the horizontal rails, vertical door stiles and attach with FS-114 screws.

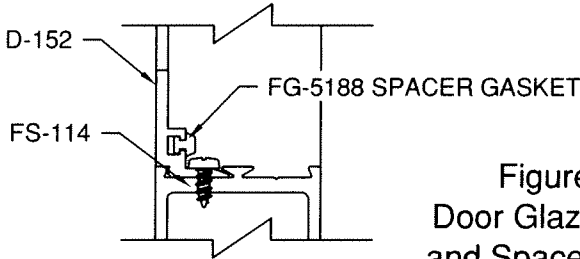


Figure 27  
Door Glazing Stop  
and Spacer Gasket

6.3.3 Install FP-5000-PP1 adhesive back setting block/side block as shown below. Blocks may be doubled as required due to glass tolerances.

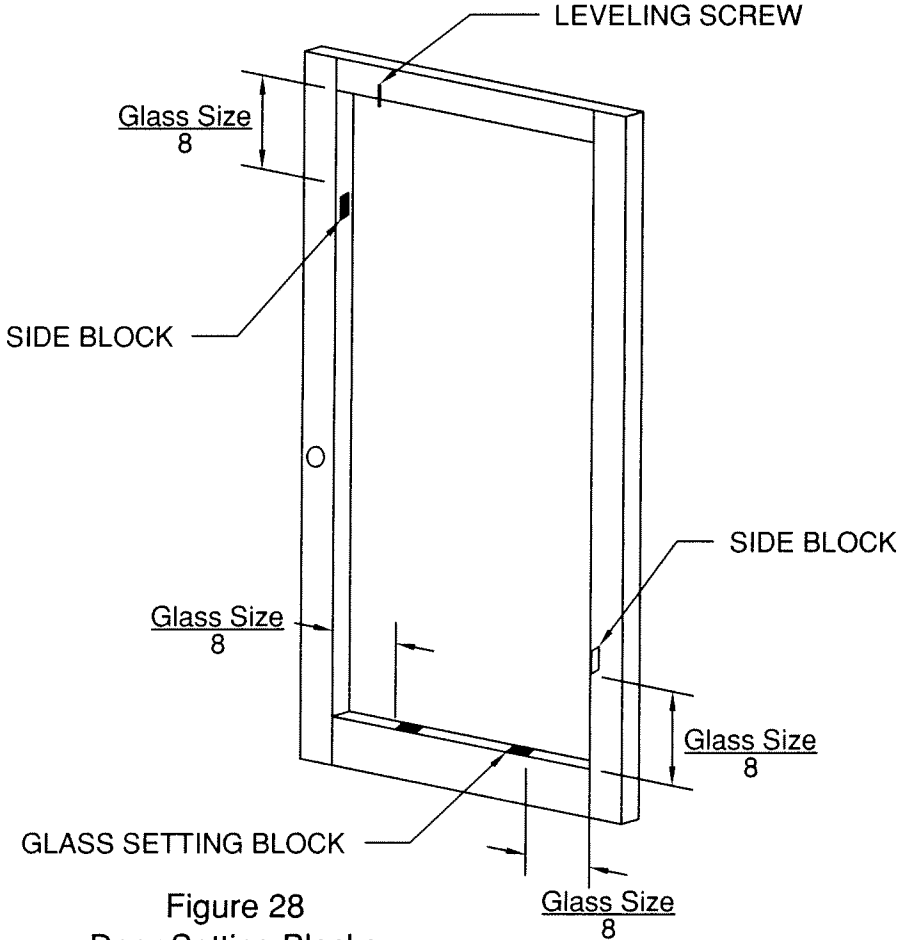


Figure 28  
Door Setting Blocks

6.3(continued) DOOR PREPARATION AND GLAZING

6.3.4 Center glass in opening on setting blocks and aligned with side blocks.

6.3.5 Once the glass is in the correct position, screw the glass jack down to the top of the glass.

6.3.6 Install S-83 horizontal glass stop first.

Note: Top stops are notched to clear glass jack. Be sure to hook the stop into the dovetails on the rails and stiles; then snap into place. A mallet may be used to drive stops into place.

6.3.7 Roll FG-1133 gasket into S-83. See detail 'A' for cutting intersections and cutting.

6.3.8 Mask off glass with low adhesive masking tape and install Dow Corning® 995 into the cavity between the glass and D-152 glass stop. Remove masking tape immediately after installation of silicone taking care not to damage or pull silicone from the cavity.

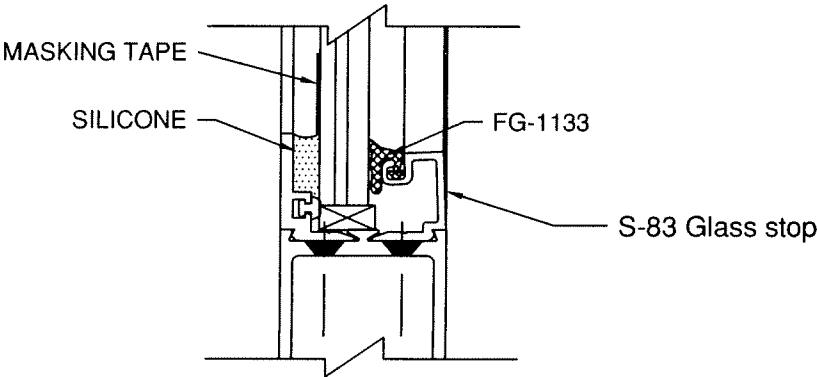
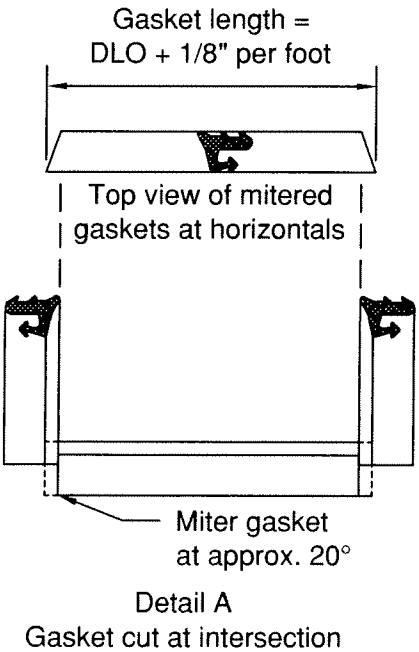


Figure 29  
Door Glazing  
Roll in Gasket and Sealant Application





StormMax FG-5000 INSTALLATION & GLAZING MANUAL

DOOR INSTALLATION

6.4 ENTRANCE DOOR FRAME INSTALLATION WITH SUBSILL FOR SIDELIGHTS

When entrance occur, install entrance frames first. Subsill butts against door jamb(s). The subsill abutting the door jamb does not require an end dam.  
Field Note : The bottom of the inside of the Door Jamb mullion must be sealed to the substrate and the end of the subsill must also be sealed see **Figure 30 below**.

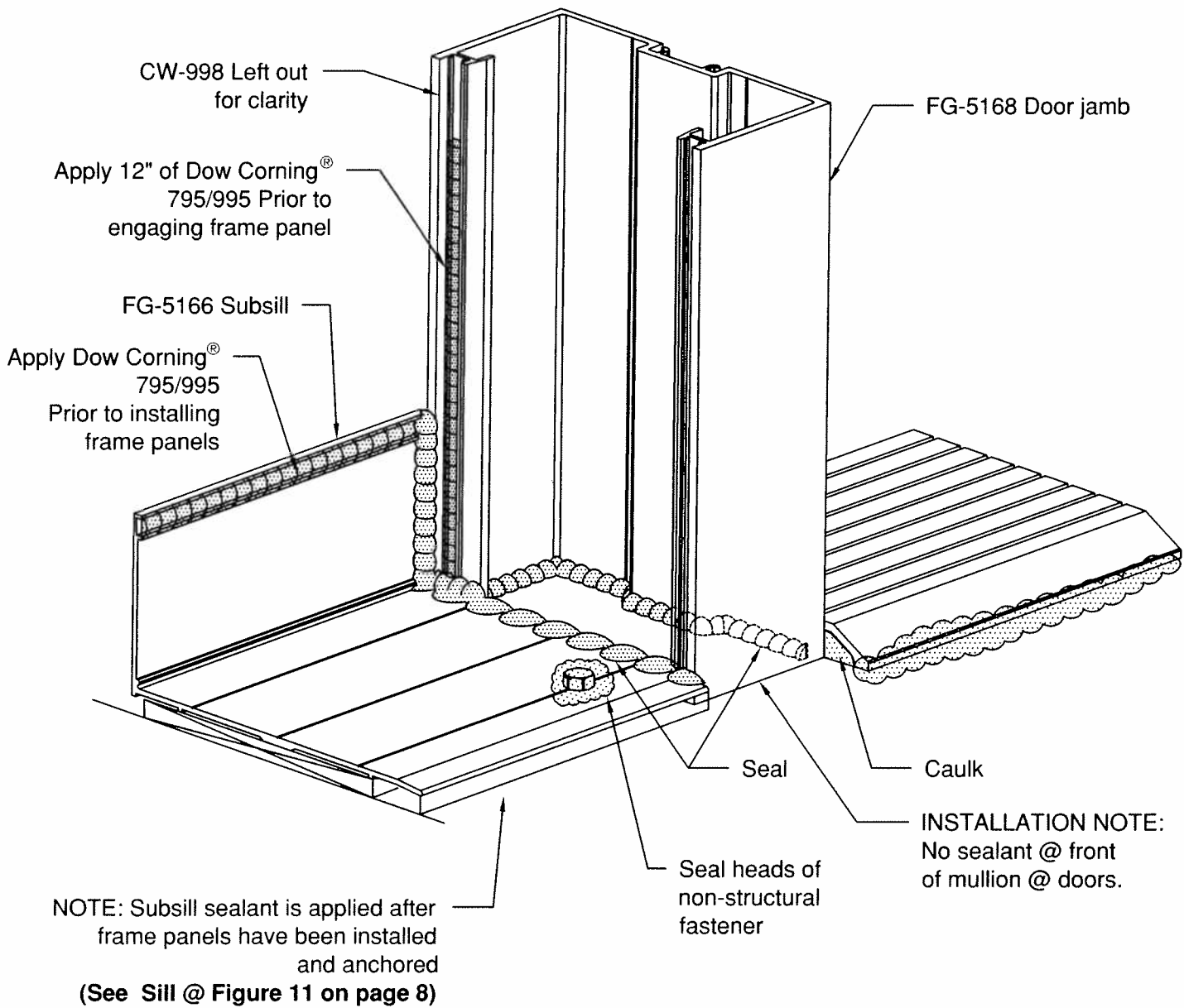


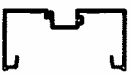



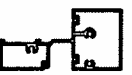














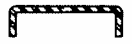






Figure 30  
Door Jamb and Subsill Sealant Application

PARTS LIST

STANDARD FRAMING		STANDARD ACCESSORIES	
ITEM	DESCRIPTION	ITEM	DESCRIPTION
 FG-5113	Channel Filler	 FG-5199	Setting Block (OGEP # 13955)
 FG-5193	Vertical Mullion	 SM-5601	Joint Sealant Tape 1/8" x 1/2" x 30' roll (OGEP # 4666)
 FG-5201	Wall Jamb	 FG-5948	Interior Glazing Gasket Dry Glazed option (OGEP # 15206)
 FG-5202	Intermediate Horizontal	 FG-1133	Exterior Glazing Gasket (OGEP # 14938)
 FG-5204	Head/Sill	 FG-5185	Interior Spacer Gasket Wet Glazed option (OGEP # 12825)
 FG-5206	Head/Sill	 FG-5000-FP-10	Sill Flashing End Dam (Attach with 2 ea. FS-54 screws) (OGEP # 9957)
 FG-5190	Glass Stop	 FG-5000-FP-6	Wet Glazed Water Diverter (OGEP # 9904 (FP-5)) (OGEP # 9906 (FP-6))
 FG-5196	Pocket Filler for FG-5193	 FG-5000-FP-5	
 FG-5180	Subsill Flashing	 FG-5000-FP-16	Dry Glazed Water Diverter (OGEP # 34012 (FP-15)) (OGEP # 34010 (FP-16))
 FG-5200	Corner Mullion (Fits with FG-5196)	 FG-5000-FP-15	
 FG-2168	Vinyl Filler Plate	 FG-5000-PP-8	Steel Reinforcing 10'-0" Use with FG-5193
		 FG-5192	Setting Chair (OGEP # 13957)
		 FS-54	#10-24 x 3/8" UCPFH Screws (OGEP # 12834)
		 FS-8	#14 x 1" HHSTS B point (OGEP # 552) Assembly Screw
		 FS-42	#12 x 1/2" PFH UC B point (OGEP # 4027) Assembly Screw

Oldcastle  
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StormMax FG-5000 IM

201-2010

16  
OF 16